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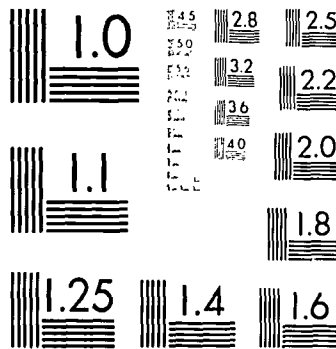








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## ABSTRACT

Individually Guided Education (IGE) is an elementary school program that replaces the self-contained classroom with an instructional unit composed of a unit leader, three to five teachers, paraprofessionals and clerical aides, and 100 to 150 children. Its program includes innovations such as nongraded instruction, team teaching, continuous progress, peer-group instruction, and differentiated staffing. IGE has seven major components: 1) an organization for instruction, a related administrative organization at the building level and another arrangement at the central office level; 2) a model of instructional programming for the individual student; 3) a model for developing measurement tools and evaluation procedures; 4) curriculum materials; 5) a program of home-school communications; 6) good communication among parts of the school system, and 7) continuing research and development. The first two of these are explained in this booklet, which also recounts experiences of schools which have adopted the program. A list of such schools is included. (JK)





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# Individually Guided Education and the Multiunit School

## OVERVIEW

A new form of elementary school organization--Individually Guided Education (IGE)--has been revolutionizing U.S. classrooms at an ever increasing rate.

Perhaps revolutionizing isn't the best word to use in describing IGE or the multiunit school, as it is also known because of its organizational arrangement. A more descriptive word would be evolutionary because IGE has been evolving from underlying concepts that have been known to educators for a decade or more. IGE designers say they are deliberately attempting to retain the best practices of the past decades and to substitute new ones where they are needed. To this end, the Wisconsin Research and Development Center for Cognitive Learning, in cooperation with several educational institutions, developed new organizational arrangements to replace age-graded, self-contained classrooms. They called the new arrangement the multiunit school.

The Wisconsin center and /I/D/E/A/ (the Institute for Development of Educational Activities, a division of the Kettering Foundation) combined their ideas in 1969 to encourage IGE's growth. Both /I/D/E/A/ and the Wisconsin center see their task as no small one, but one that can be solved. "Millions of children are depending on us...each with different needs...each with different learning styles...each waiting to be educated," /I/D/E/A/ said in its booklet, Individually Guided Education. "...There is a way...to manage our available educational resources to approach each child individually and still provide an education for all--a way to teach children one at a time, together. That way is Individually Guided Education, a system for developing learning programs to meet individual needs," /I/D/E/A/ said.

The multiunit school can be traced back to 1964-65 when Project MODELS (Maximizing Opportunities for Development and Experimentation in Learning in the Schools) began at the Wisconsin center under the direction of Herbert J. Klausmeier, professor of educational psychology at the U. of Wisconsin. He was joined by representatives of 13 Wisconsin school systems and the Wisconsin Dept. of Public Instruction. Their aim was to initiate "a new type of organization...in the school building to deal with some of the mutual concerns of the center, the school systems and the

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State Dept. of Public Instruction regarding the development of exemplary instructional systems and sophisticated experimentation."

Roles and functions of unit staff were defined during the next few months. As a result of this project, the Wisconsin center and three school districts cooperatively started in 1966 the first 13 nongraded instructional and research units as replacements for age-graded classes in schools at Madison, Janesville and Racine, Wis.

In 1966-67, the number of functioning instructional and research units increased to 19, and by the next school term seven elementary schools in the same school districts were completely organized into multiunit schools for the first time. The emerging system became known as Individually Guided Education.

A significant forward thrust in implementation occurred when the Wisconsin State Dept. of Public Instruction selected the multiunit school for statewide demonstration and installation during the 1968-69 school year. In cooperation with the Wisconsin center and four teacher-education institutions, the state education department started eight "lighthouse" or demonstration schools in seven school districts, bringing the number of totally organized multiunit schools in Wisconsin to 15. State Supt. William C. Kahl, in citing the state education department's reason for selecting the multiunit school for implementation, said it showed:

"the greatest promise as a facilitative environment for improving learning opportunities at the elementary school level.... Within the unit structure provided, both the instructional and learning components support effective use of time, talent and effort. Roles are differentiated and opportunities are provided for planning, sharing and evaluation. Provision is inherent in the design to encourage cooperative effort in teacher education and research activities at the local education level."

In the 1969-70 school year 50 multiunit schools operated in 23 Wisconsin districts. Another leap forward in implementation and refinement occurred in 1969, when the Wisconsin center and /I/D/E/A/ entered into an agreement whereby /I/D/E/A/ used center-developed printed materials and videotapes to prepare their first generation multimedia inservice materials. Insights from /I/D/E/A/'s Study of Educational Change, which began in the spring of 1966, were also incorporated into the materials.

In 1970-71, /I/D/E/A/-developed materials were used to implement multiunit schools for the first time--primarily in Colorado, South Carolina and Wisconsin. By the 1970-71 school year, 164 IGE or multiunit schools were operating in eight states; of these, 99 were in Wisconsin. The New Jersey State Dept. of Education was so impressed with the results of its IGE program in 25 multiunit schools for the 1971-72 school year that it authorized grants and assistance to 40 more schools for the 1972-73 school year.

The most recent implementation thrust came when the U.S. Dept. of Health, Education and Welfare (HEW) selected the multiunit school for nationwide installation in the 1971-72 school year. HEW funded the Wisconsin center's effort to carry out IGE implementation in more than 250 new schools in 13

states. Other new multiunit schools started by /I/D/E/A/ brought the total number of IGE schools to well above 500 in 18 states in 1971-72. And, according to the Wisconsin center and /I/D/E/A/, dramatic growth can be expected in the future. Approximately 350 new schools are working with the Wisconsin center in the 1972-73 school year, as well as 200 with /I/D/E/A/. Thus, some schools are working only with /I/D/E/A/, others only with the Wisconsin center, and some with both /I/D/E/A/ and the center.

## **IGE: A Total System of Elementary Education**

What makes IGE so popular? Why are so many new multiunit schools starting? Two reasons stand out. First, IGE is a comprehensive design--a total system of elementary education--that provides a realistic alternative to the age-graded, self-contained classroom and the traditional form of organization that makes children adapt to the system instead of adapting the system to meet the needs of each individual child.

Part of IGE's comprehensive design is its focus on attaining clearly stated objectives through individualized instruction: not individualized instruction when it is viewed merely as students learning through direct interaction with instructional materials and little or no assistance from teachers, but individualized instruction in which self-instructional materials and procedures are taken as just one element of each student's instructional program.

The dominant thrust in attempting to improve American education over the past several years has been individualized instruction. Every teacher recognizes that a class of 25 children, though all of about the same age, can differ dramatically in their abilities, their interest in one subject rather than another, and their preferences for one form of instruction over others.

Most teachers have always recognized that every child is an individual. But, even with this recognition, students, by and large, have been forced to fit into an existing system without regard for their individual differences. IGE tries to solve this problem by encouraging instructional programs for each individual student so that his objectives may be attained. This calls for:

- Planning instructional programs which allow each student to progress at his own rate.
- Providing instructional materials (textbooks, audiovisual materials, demonstrations) which can accommodate individual learning styles.
- Organizing modes of instruction--large-group instruction, small-group instruction, independent study, one-to-one instruction--to suit each child's best learning style.
- Matching teachers and students so that each student has the help of the teacher who best suits him for each specific learning task.

Too often, in cases where instruction is supposedly individualized, it is fragmented. In such cases, individualized instruction is not truly individualized. In the March-April 1972 issue of Florida Schools, Blanche

McMullen, an elementary education consultant in the Florida State Dept. of Education, addressed herself to this problem.

"A program is either individualized or it is not," she wrote. "There is no such thing as being partly human, or human in mathematics, or human for one year of your life. Neither can any instructional program for individuals be partly individualized. An individualized program is also ungraded," she continued. "How can it be otherwise if it is individualized? An individualized program is diagnostic. On what other basis should a teacher prescribe? A humanistic program is individualized. How else is one more human?"

"To use any one of these terms to define a program when all the others are not included also seems educationally irresponsible, adds to the confusion and contributes to the disillusionment of teachers," Mrs. McMullen said.

She cited some instances of what she referred to as "fragmented" individualized programs:

- "Teachers 'hung up' on writing packages (prescriptions) for children, but no time to talk to a child.
- "Teachers who use the same sequence of prescriptions for children. (They use them at different times for different children.)
- "Teachers who never write prescriptions, but whose children are much involved in 'different activities.'
- "Children who frequently have to spend an entire day in isolation in order to 'get through' their individualized prescriptions.
- "Children whose only alternative to isolation is large-group instruction.
- "Schools which have individualized or ungraded fourth-grade reading...."

At no time does Mrs. McMullen single out any particular program of individualized instruction to either praise or attack it. Her primary concern is to make any such program truly individualized. She also recognizes that certain objectives can be attained only through interactions among students and between a teacher and students. IGE has the same aim. And IGE, fully implemented in a school, is designed to eliminate the fragmented individualization programs that currently exist in many schools, its developers say.

The second reason that IGE is growing in popularity, according to proponents, is that it encourages the adaptation of some of the most talked about innovations of the past two decades--team teaching, differentiated staffing, inquiry-directed learning, multi-age grouping, peer instruction, open classrooms, continuous progress learning, programmed instruction, computer-assisted instruction and others. Few have ever been adopted by school systems on a large-scale basis. Changes in education, by and large, have been isolated, piecemeal, small in scope and, often, temporary, IGE developers say. Promising ideas tested and proved in one classroom or in one school system have been slow in affecting classroom practices and procedures elsewhere. Why this lack of impact? There are several reasons. Some innovations, despite all

the praise, haven't proved to be practicable or workable except in very specific situations and for certain teachers. Some innovations require large outlays for new equipment or specialized training and have proved to be too expensive for many districts. Some innovations, after being tried by outstanding teachers, fall by the wayside because less outstanding teachers lack the interest to try them. And, perhaps the most compelling reason for the reduced effectiveness of some innovations is that many teachers simply don't know how to incorporate them into the class or feel that if adopted, they would somehow violate teacher control in the self-contained classroom.

The IGE system particularly attacks this last problem. First, the self-contained classroom is eliminated in the IGE system. It is replaced with an instructional unit composed of a unit leader, three to five teachers, additional supportive staff (paraprofessionals, clerical aides, etc.) and 100 to 150 children. With this type of arrangement, a number of the innovations of recent vintage must come into play as part of the total instructional program. The following are some of the innovations that are a basic part of IGE:

- Nongraded instruction, in which every student either works independently or is grouped and regrouped with others according to his progress toward or interest in attaining his instructional objectives regardless of age or years in school.
- Team teaching, in which groups of teachers assess pupil progress, devise instructional strategies to solve individual problems, divide teaching assignments according to specific abilities and interests of each individual member of the team, and help one another grow professionally.
- Continuous progress, in which every student advances as quickly as he can or as slowly as he must depending only on his individual ability
- Peer-group instruction, in which students of different ages work together in either small groups or in pairs to solve common problems.
- Differentiated staffing, in which outstanding teachers serve as unit leaders of a team in order to direct the education of children and to provide leadership and assistance to other teachers.

In summary, IGE supporters claim it is a total system of elementary education--one concerned first with changing the organization for instruction and the related staffing pattern so that instructional improvements can more readily occur. It takes a broad view of education and instruction in which true individualization to attain all of the school's educational objectives is achieved by varying certain elements--student instructional programs, instructional materials, modes of instruction and teachers. It encourages the adaptation and implementation of those innovations that are consistent with the total IGE system. IGE supporters also claim it is the first realistic alternative in this century to the age-graded, self-contained classroom--the traditional form of elementary school organization.

In this special report, we will take a look at the inner workings of the IGE system, its adoption in schools across the country, reactions to IGE by several different publics, and how it is working in practice.



## HOW IGE WORKS

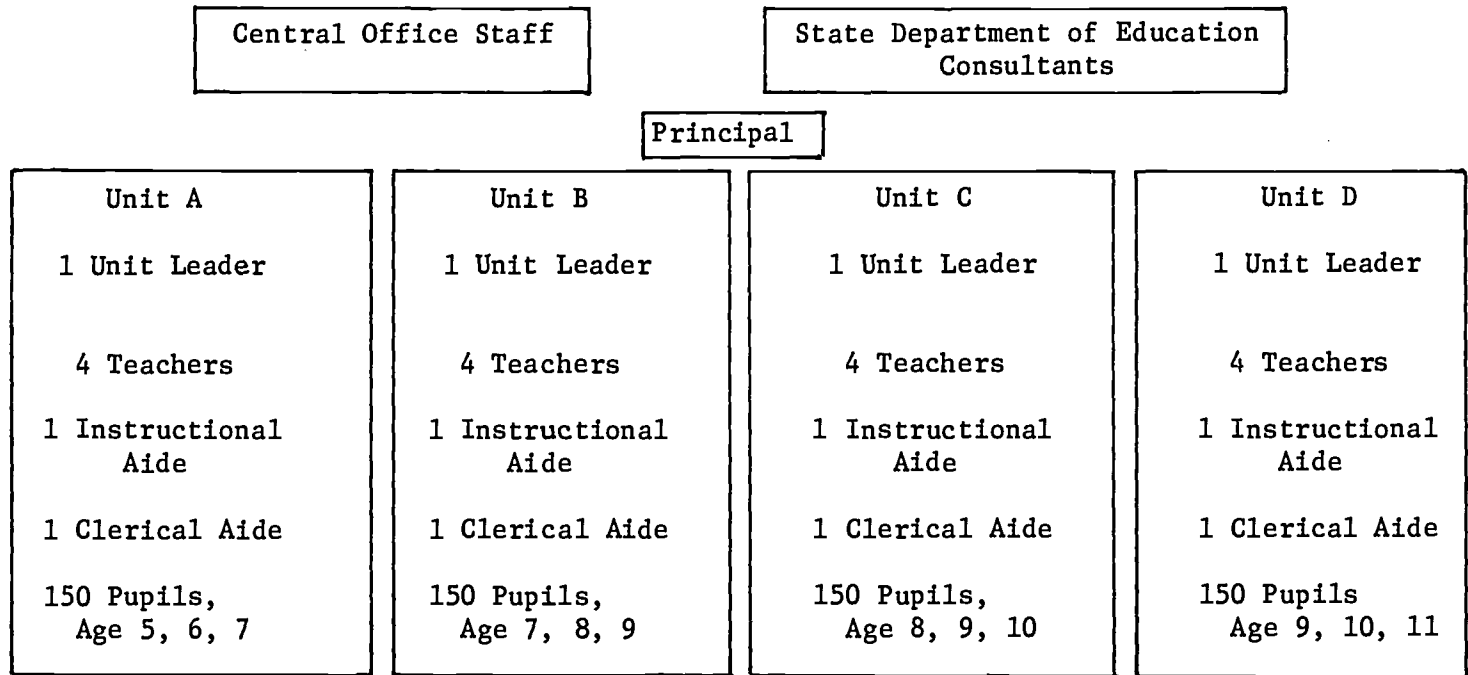
IGE is a comprehensive form of education and instruction designed to produce higher levels of educational achievement by providing for differences among students in rates of learning, learning styles and other characteristics. IGE supporters claim it is more comprehensive than other individualization programs that provide for little or no contact with teachers and that give little or no attention to attaining important educational objectives through small group activities.

Further, some teacher instruction of groups rather than only of individuals is essential so that IGE costs do not markedly exceed those of the traditional system. Therefore, in IGE, individual instruction is just one of several modes of learning situations.

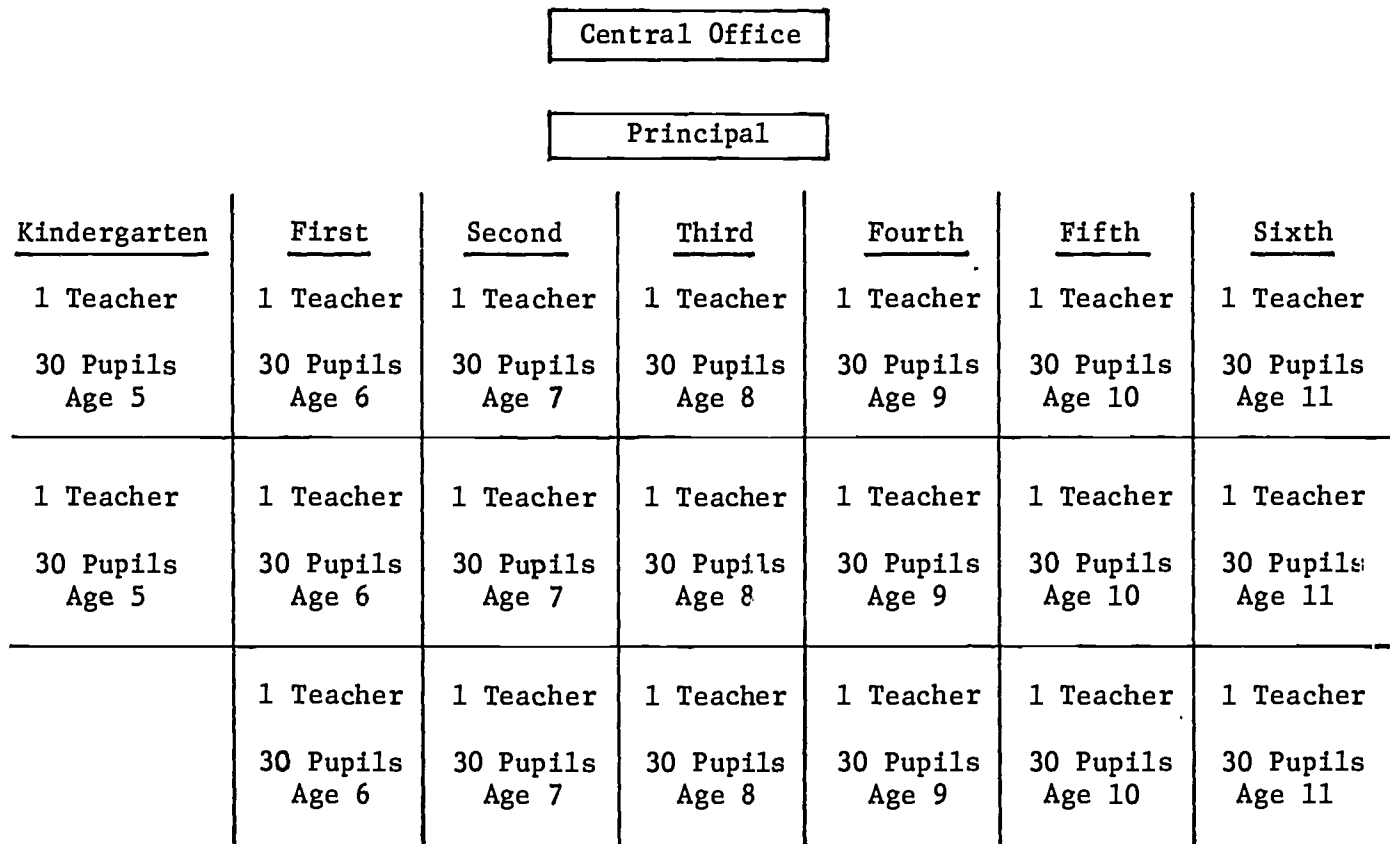
But IGE is really more than just an instructional program. The thing that must always be kept in mind is that IGE has many related parts that must function smoothly in the same school building. In fact, there are seven major components of IGE:

- An organization for instruction, a related administrative organization at the building level and another arrangement at the central office level. This new type of organization, called the multiunit organization, is designed to provide for educational and instructional decision making at several different levels; to open communication among students, teachers and principals; to institute accountability by educational personnel at various levels. (See figures 1 and 2 for a comparison in organizational arrangements of an IGE multiunit school and a traditional elementary school.)
- A model of instructional programming for the individual student. This is designed to aid teachers in planning and carrying out an instructional program for each student that takes into account his objectives, rate of learning, level of motivation, etc. It also provides the structure for developers to prepare curriculum materials for IGE schools. (See figures 3 and 4.)
- A model for developing measurement tools and evaluation procedures. The model includes preassessment of children's readiness; assessment of progress, and of final achievement with criterion-referenced tests; feedback to the teacher and the child; and evaluation of the IGE design and its components. This model is used by teachers, mainly in selecting and using assessment tools and by curriculum developers in preparing instructional packages.

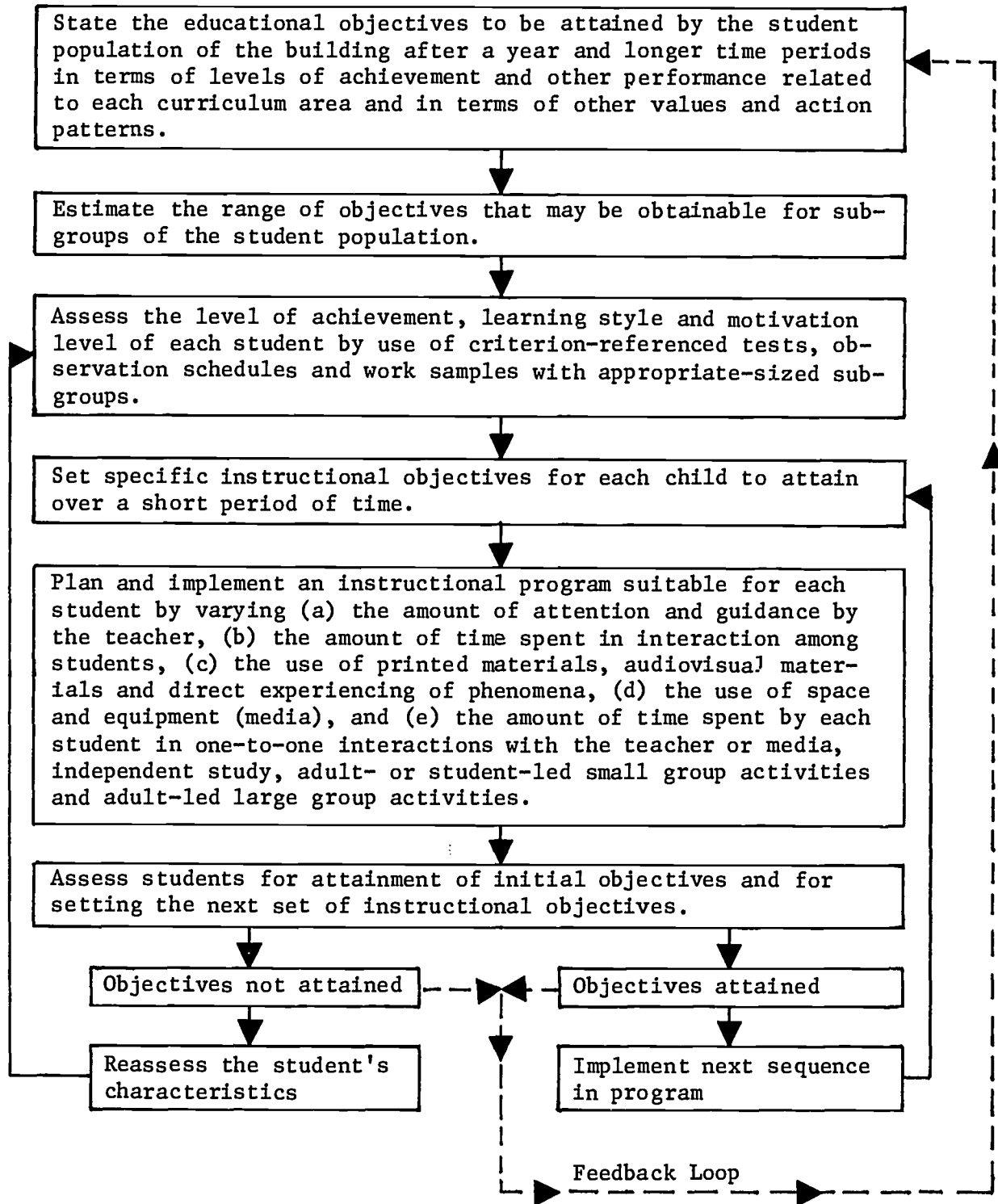
**Figure 1: Organization of Multiunit School with 600 Pupils**



**Figure 2: Organization of Traditional Elementary School with 600 Pupils**



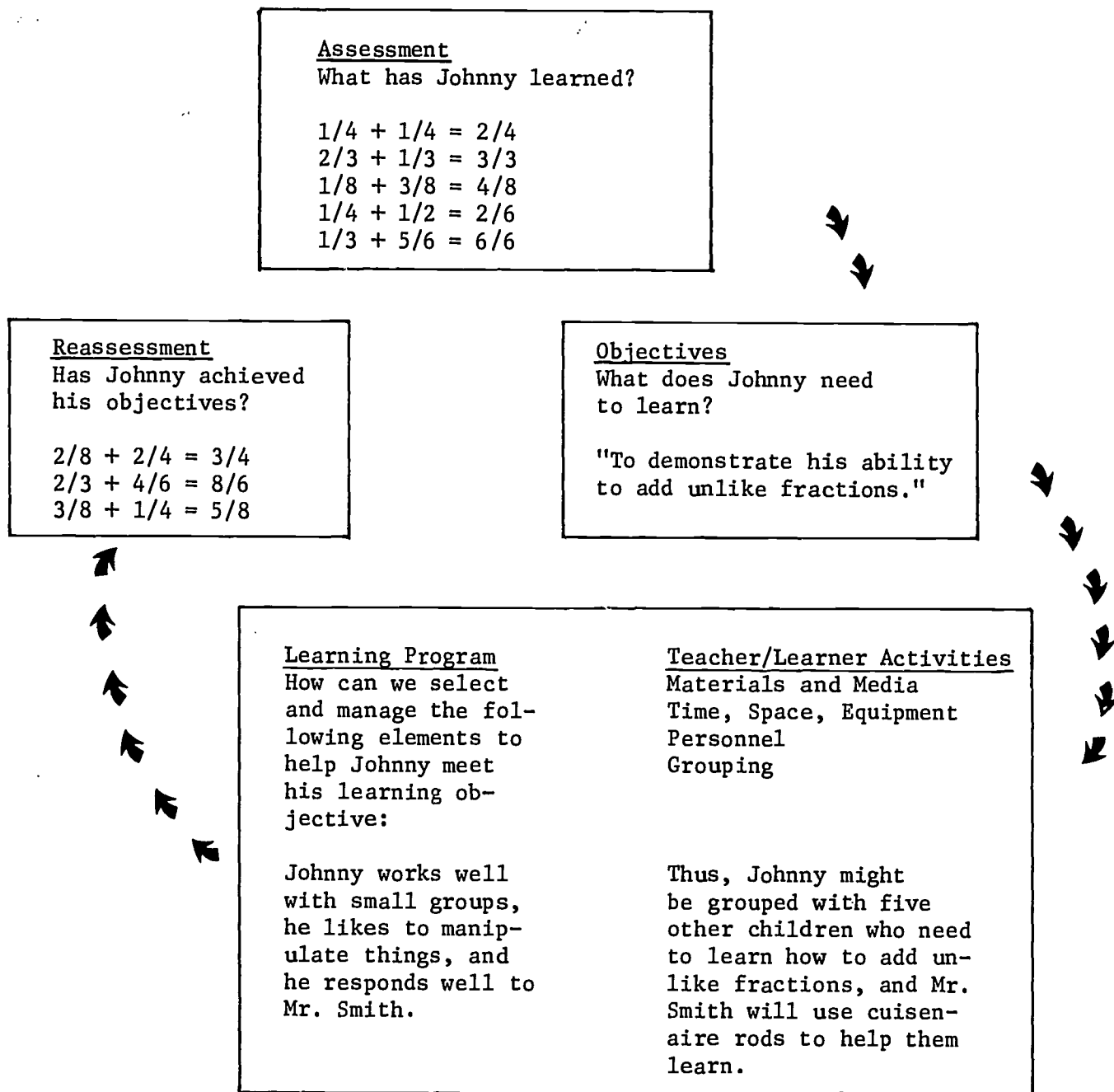
**Figure 3: Instructional Programming Model in IGE**



From Individually Guided Education and the Multiunit Elementary School, Wisconsin Research and Development Center for Cognitive Learning



Figure 4: The IGE Cycle



From An Overview of Individually Guided Education, c1971, /I/D/E/A/

- Curriculum materials, related statements of instructional objectives, and criterion-referenced tests and observation schedules. The Wisconsin center is developing materials for reading, prereading, mathematics, environmental education and motivation in line with the models of instructional programming and assessment mentioned. Some of these will be available commercially, starting in 1973-74. However, there is presently a shortage of materials suitable for IGE practices, and most schools adopt and adapt materials that suit the characteristics of their students.
- A program of home-school communications that reinforces the school's efforts by generating the interest and encouragement of parents and other adults whose attitudes influence pupil motivation and learning. Both the Wisconsin center and /I/D/E/A/ stress that the initial impetus for adoption of IGE should come from a school system's teaching staff. And both organizations insist that schools and school districts involve parents in discussing, initiating and implementing IGE.
- Facilitative environments in school buildings, school system central offices, state education agencies and teacher education institutions. The Wisconsin center believes that the key to successful implementation of IGE is close cooperation among the IGE schools of the district, the school district central office and the state education agency. The center has organized such cooperative arrangements in 14 states and continues to coordinate this effort. Both /I/D/E/A/ and the Wisconsin center feel that information-sharing networks among IGE schools are important. (see p.37-40 for the names of /I/D/E/A/ facilitators and of state coordinators and contact persons for the Wisconsin center.) Institutions participating in the /I/D/E/A/ Change Program have developed Leagues of Cooperating Schools. Each League is composed of up to 15 schools and is headed by a facilitator. The facilitator is a full-time person from the state education agency, local university or school district who has agreed to work with the IGE schools. One of the facilitator's goals is to set up a league newsletter that keeps members informed about IGE.
- Continuing research and development to generate knowledge and to produce tested materials and procedures. A major feature of the IGE system is that it is not rigid. Instead, it is designed to be continuously changing and improving. It is still being refined based on the experiences of the people involved. In addition, each multiunit school has to try new things, evaluate them and engage in practical research to design, implement and evaluate instructional programs for individual students.

The first two components mentioned above, the school organization and the instructional program, are, of course, the primary parts of IGE. A more detailed description of each follows.

### **The Organizational Setup**

There are three distinct levels of operation within the organizational structure of IGE: the I & R unit (instructional and research unit); the IIC (instructional and improvement committee); and the SPC (systemwide policy committee).

The I & R unit is the nongraded organization for instruction that replaces the age-graded, self-contained classroom. Each unit (see figure 1, p.7) consists of a unit leader, three to five teachers, an instructional aide, a clerical aide and up to 150 children. The number of staff members in a unit can vary. In some cases, there will be no aides. In other cases the aides will be paid paraprofessionals or volunteers. The number of supportive assistants in any given unit will depend in large part on how much the school district is able to pay and its policy regarding the employment of noncertified teachers.

The primary function of the I & R unit is planning and carrying out the instructional program for each child in the unit. This team assesses each child's level of achievement, learning style and motivation level by using various kinds of tests, by observing each student and by examining work samples from each student. The team then works out specific instructional objectives for each child to complete over a short period of time. After working out an instructional program for each child, the team reassesses each student's progress and achievement to determine if the initial objectives were attained. It then decides on the next set of instructional objectives. (See figure 4, p.9.)

The I & R unit is also responsible for researching new ways to teach children and to assess children's learning levels. Through experimentation and observation, unit teachers develop new ways of teaching. These new teaching techniques are then passed on to other teachers in other units by the principal and the unit leaders.

The IIC is composed of the building principal and all of the unit leaders in the building. (See figure 1, p.7.) The IIC has four main functions:

- To formulate the educational objectives and outline the educational program for the entire school building.
- To interpret and implement the systemwide and statewide policies that affect the educational program of the building.
- To coordinate the activities of each of the I & R units in the building for the necessary continuity in all curriculum areas.
- To arrange for the use of facilities, time, materials and other items that the individual units do not manage independently.

Starting an IIC involves a change in the role of the school principal. In the multiunit school the principal assumes greater and more direct administrative responsibility for developing the educational program, managing the preservice and inservice training activities and administering research and development activities.

The SPC is the systemwide policy committee. It includes the school superintendent or his designee, various consultants and other central office staff, the principals of multiunit schools, the unit leaders and multiunit school teachers. The primary purpose of the SPC is to make the transition from the self-contained classroom to the multiunit organization.

## The Staff

What are the roles and responsibilities and objectives of the principal, unit leader and teachers in IGE?

IGE specialists say a training program is necessary before a school implements IGE. Both the Wisconsin center and /I/D/E/A/ suggest that any teacher who does not agree with the concept should be permitted to transfer to another school in the district. (As an added note of information, IGE authorities assert that the system cannot be imposed on a school or its staff from above. The teaching staff must agree that this is the kind of system it wishes to put into the school.)

The major part of the inservice training for IGE teachers focuses on getting teachers to think as members of a team, working together to provide an individualized instructional program for each child. The IGE training program is also designed to help staff members in an IGE school recognize their changing attitudes and through simulations to provide them with experience in an individualized learning program.

Both the Wisconsin center and /I/D/E/A/ offer detailed teacher inservice programs and multimedia materials which vary somewhat in strategy and emphasis but little in purpose. In its Implementation Guide, the center outlines the objectives to be attained by a multiunit school. These are organized under four headings: instructional programming, organizational operations, staff development and home-school-community relations. In its Implementation Guide, /I/D/E/A/ lists 35 outcomes to be achieved by various members of the IGE school personnel. The outcomes are also divided into two basic categories--"Instructional Process of IGE" and "Self-Improvement Process of IGE." Together, the outcomes listed in the Implementation Guide clearly establish the direction for a school implementing IGE. And, as attitudes and responses to outcome questionnaires change, it is easy to determine the degree of implementation of IGE and the areas of concern. The list of outcomes follows:

### IGE Outcomes for the Instructional Process

#### Responsibility of the Principal

- The entire school is organized into units with each unit composed of a unit leader, teachers, auxiliary personnel and students.
- Each unit is comprised of approximately equal numbers of two or more student age groups.
- Unit teachers have sufficient time in which to conduct unit meetings (a minimum of three hours per week).

#### Responsibility of the Unit Leader

- Each unit makes the decisions regarding time, space, materials, staff and students assigned to that unit.
- Unit teachers practice role specialization and a division of labor when planning for the students' learning programs.
- Unit teachers decide on broad goals to be emphasized, based upon a discussion of previous accomplishments of the unit members.

- Unit teachers develop a collection of student learning objectives consistent with the broad goals of the learning program.
- Unit teachers develop plans for diversified activities in which students may pursue each of the desired learning objectives.
- The unit selects and/or develops curricular materials which include the following components: assessment methods, specific learning objectives, a variety of learning activities using different media, student performance records.
- Large groups, small groups, paired situations and independent study are provided as optional learning modes.
- The collective teaching strengths of unit teachers are used as a result of unit planning when constructing teaching-learning environments.
- Options exist for providing a greater range of teaching-learning environments.
- Parents reinforce implementation of the instructional process of IGE by giving vocal support to the program.
- Parents are involved in the instructional process of IGE.

#### Responsibility of the Teacher

- Individual teacher's decisions are consistent with the unit's operations.
- The following are considered when students are matched to learning activities: peer relationships, achievement, learning styles, interest in subject areas, self-concept.
- Unit teachers insure that each student has personal rapport established with at least one teacher.
- Adequate opportunity is provided (through discussion and written communication) to insure that each teacher is fully aware of perceptions and suggestions of other unit members relating to the students with whom each has developed special rapport.
- Each student is involved in self-assessment procedures and analyses of the assessments.
- Each student accepts increasing responsibility for selection of his learning objectives.
- Each student participates in the selection of learning activities to pursue learning objectives.
- Each student can state learning objectives for the learning activities in which he is engaged.

### **IGE Outcomes of the Self-Improvement Process**

#### Responsibility of the League Facilitator

- The league coordinates an interchange of personnel to identify and alleviate problems within the league schools.
- The league stimulates an interchange of solutions to existing problems and is a source of ideas for new development.
- The league devotes time to analyzing and improving league operations.

#### Responsibility of the Principal

- Assignments of staff members to units are made with regard to complementary strengths and professional compatibility of the teachers.

- The IIC resolves problems involving two or more units.
- The IIC coordinates curricular development to insure continuity of educational goals and learning objectives throughout the school.
- The IIC coordinates schoolwide inservice educational programs.
- The IIC provides channels of two-way communication throughout the school.
- The IIC devotes time to analyzing and improving committee operations.

#### Responsibility of the Unit Leader

- The unit's plans submitted by the resource teachers are constructively criticized by unit members.
- Teacher performances in the learning environment are constructively criticized by unit members using both planned and informal observations.
- The unit devotes time to analyzing and improving unit operations.

#### Responsibility of the Teacher

- Staff members of an IGE school have a personalized program enabling each to learn and to implement IGE.

### **The Role of the Unit Leader**

IGE encourages differentiated staffing, but not to the degree that is expressed in other plans which call for a huge proliferation of new roles and titles for personnel. The multiunit school calls for just one new role--that of unit leader. And, unlike many differentiated staffing plans which call for the master teacher to be primarily a teacher-trainer, that role is only one of several functions of a unit leader. The unit leader, in addition to being a member of the IIC and leader of the I & R unit, is also a teaching member of the unit.

The following are the unit leader's responsibilities:

#### Instruction

- Assume leadership in developing, carrying out and evaluating IGE in the unit--including objectives, materials, equipment and activities.
- Work closely with the unit staff, building principal, subject matter specialists and other consultants.
- Coordinate assessment of children's characteristics and progress in the unit and the placement of children in appropriate activities.
- Assume leadership in establishing good home-school relations.
- Teach about 50% to 80% of the time or be directly involved with the children in other ways.
- Utilize some of the remaining time to act as liaison between the principal and unit staff (and students); meet with staff members to plan instruction and to enhance the understanding of IGE, and meet with the IIC.
- Keep abreast of advances in subject knowledge, instructional materials and other components of a system of individually guided education.

#### Staff Development

- Develop, cooperatively with the IIC, the building principal and relevant



central staff, a building program of on-the-job education for certified personnel of the unit, including teacher interns.

- Develop and carry out a similar program for nonteaching aides.
- Coordinate the inservice training activities of both teaching and nonteaching staff whereby the capabilities of nonteaching aides are identified and improved and teachers learn to work effectively with aides.
- Develop, with the IIC, the building principal, relevant central staff and representatives of teacher-education institutions, a training program for teacher interns.

#### Research

- Plan research activities of the unit with appropriate personnel.
- Coordinate research activities with the I & R unit.
- Guide the administration of experimental treatments--instructional methods, materials, media--by sub-experimenters (teachers or others) to insure continuous adherence to the specified experimental design and to a schedule for collecting information.
- Guide the collection and, as time permits, the analysis of information collected.
- Keep abreast of relevant research results and methods.

#### Development

- Plan the development activities of the unit with the appropriate personnel of the unit, building, central office and other agencies.
- Coordinate the development of a system of individually guided education within the unit, including a statement of objectives, the assessment of the capabilities of students, the instructional program and evaluation procedures.
- Participate directly in preparing instructional materials, diagnostic procedures, measurement instruments, etc.

#### Innovation

- Coordinate the introduction of novel instructional materials, measurement and evaluation tools and procedures, instructional methods, etc.
- Stimulate the invention of new instructional methods within the unit.
- Keep abreast of innovations throughout the school system, state and nation through visits, conferences and reading.

#### Diffusion

- Provide for the proper briefing of observers of the I & R unit.
- Participate in the planning and actual diffusion of promising practices within the school building and system.

A great deal of staff interaction among staff members and with the students is considered essential by IGE authorities. In addition, the IGE model requires a great deal of time for assessing each child's abilities and learning styles and for planning the instructional program for each child. Representatives of both the Wisconsin center and /I/D/E/A/ stress that in terms of time and effort, the IGE system requires more time for assessment and planning than

the traditional self-contained classroom. The IGE system also requires considerably more decision making by small groups of teachers rather than by individual teachers. No teacher or principal in the ideal IGE operation works independently of everyone else.

## Curriculum Materials

One of the hazards with any new kind of system or program is the selection and adaptation of materials. The Wisconsin center is developing materials in several areas that will be commercially available to traditionally organized as well as multiunit schools, starting in 1973-74. However, the use of these materials is not required. In fact, both the center and /I/D/E/A/ suggest that each multiunit school should examine the materials available and select those that suit the needs of its students.

The center, in addition, recommends that all materials be as consistent as possible with the center's model of instructional programming. This enables teachers to do more teaching and to spend less time in developing materials and tests. Therefore, IGE practitioners must keep in mind that the objectives of IGE and the nature of the instructional programming sequence require high quality, tested materials to achieve specified objectives.

Multiunit schools are notified as soon as newly developed curriculum materials are available for large-scale field testing and are encouraged to participate. Each school is invited to send representatives to an inservice workshop to learn how to properly implement the particular curriculum component.

The Wisconsin center specialists recommend the following procedures for identifying and using instructional materials:

- Educational objectives for the school district are stated.
- A systemwide committee identifies possible printed materials (textbooks, supplementary texts, programmed materials, library books) and audiovisual materials (motion pictures, sound tapes, filmstrips, slides, recordings, etc.) as well as self-contained multimedia packages.
- The building staff reviews the systemwide list and selects those materials that are most appropriate to attain specific instructional objectives. (All materials are keyed to these objectives and special material related to each curriculum area is available.)
- Material is selected and organized so that the same concepts may be introduced to a large group by means of a film, for example, and to a smaller group by means of slides or in another manner that is equally easy to handle. And, the same concepts should also be available in a form that is easily used by a student independently, to accommodate his individual learning style and rate of learning.

Although many existing materials can be adapted for the multiunit school, IGE specialists say it is probably easier and less time-consuming to select new materials with many of the educational objectives built in.



## Who Trains the Trainers?

/I/D/E/A/ provides for the training of staff members of IGE schools through a process of teaching/learning clinical workshops. In the first step of the process, /I/D/E/A/ trains facilitators from intermediate agencies. (See p.37.)

Facilitators learn about IGE processes and about techniques to use in teaching staff members of IGE schools. /I/D/E/A/ cites several advantages to its clinical workshop approach:

- Facilitators are exposed to cognitive knowledge of the IGE process.
- Facilitators receive an opportunity to interact with other trainees. This interaction includes the give-and-take of constructive criticism by fellow learners.
- Facilitators learn how they can use the same clinical techniques when they move to the next step in the process--teaching staff members of IGE schools how to operate in IGE classes.

John Bahner, /I/D/E/A/'s director of innovative programs, says the institute carefully tailors and conducts the workshops so that facilitators can make maximum use of the training they receive. "We want [IGE facilitators] to be able to operate in their new role--IGE school personnel--in ways which are patterned identically to the way we operate with them," Bahner says. A description of a workshop follows:

During the 10-day clinic, facilitators become an actual teaching team in a school not yet using IGE processes. Team members must provide learning environments for students who attend for half of each day, as well as observe and analyze other facilitators as they work with students. During the second half of the day, facilitators conduct "critiquing sessions" (providing analysis and criticism of the morning's activities) with their colleagues. They learn more about IGE processes primarily by using IGE materials and through discussion groups with staff consultants. They also must plan for the next day's activities.

In addition to learning the role of IGE teachers and principals they learn their new role as an IGE facilitator in a separate three-day session. Thus, through movies, filmstrips, tapes and simulations, they learn how to answer questions on IGE from professionals and interested citizenry; they talk about ways of recruiting schools into League of Cooperating Schools which will implement IGE; they prepare plans for reactions by workshop consultants which they will use to recruit schools, hold the first league meeting and train principals and unit leaders.

Facilitators must have achieved all the outcomes designated for them prior to leaving the clinic, so in some cases this may be more or less than three days. "We anticipate a few facilitators may be around as long as five days during this period and other facilitators will need additional help in a school situation before they are deemed to have satisfactorily achieved all the outcomes," Bahner says.

## Costs and Facilities

In any new program, the questions of how much it will cost and what kind of building arrangement will be needed always arise. And IGE is no different. The first staff cost that must be considered is the possibility of a higher rate of pay for unit leaders. The Wisconsin center recommends that unit leaders receive salaries 20% above those of staff teachers. In reality, unit leaders are receiving from 4% to 10% more than staff teachers. While the amount a district is prepared to spend is entirely up to the local district, the establishment of the new career position, that of the unit leader, calls for higher pay for the additional work and responsibility.

Another cost is for noncertified teaching aides. Some districts have used volunteer aides. Others use paid aides. By and large, most districts find that paid aides are more dependable, appear on a more regular basis and offer less confusion to the unit. One problem with volunteer aides is that they may only work one or two days a week.

The Wisconsin center suggests that a district planning to implement IGE should allocate at least \$10 per pupil during the first two years for any combination of one instructional aide per 150 children, additional instructional materials and higher pay for the unit leader. Some districts report that this figure is too low, depending on the cost of aides, the kinds of materials the district is buying and other items. The \$10 per-pupil cost per 150 students is generally low if an instructional aide is included. If a paid aide is added, the cost will generally double. Many districts have tried using parents on a volunteer basis but, in most cases, this has not worked out. It has saved some money, but many programs have suffered because parents generally are not able to serve on a regular basis. Other costs for staff development will include pay for teachers attending workshops, travel expenses to and from workshops, and so on. These staff development activities may be an addition to what the district had before starting multiunit schools.

An area of savings to school districts is reported by Norman Graper, principal of Wilson Elementary School in Janesville, Wis., one of the first multiunit schools in the nation. Graper says that hiring more aides and buying additional materials increased the school's operating costs, but that the increase was offset by savings gained by reducing the number of substitutes. When one member of a team was absent, other members of the team could fill in without any great loss of efficiency.

The cost of remodeling a school to provide the ideal space for IGE could be prohibitive. Therefore, the Wisconsin center recommends that as a minimum, walls of older buildings should be removed so that two well supplied instructional resource centers can be arranged, one to accommodate at least 90 intermediate-age children and another for at least 60 primary-age children. This creates most of the area needed for some large- and small-group instruction, one-to-one student-teacher instruction and independent study.

The Wisconsin center says that although there may be additional costs for a salary increase for the lead teacher, inservice training above current levels, facilities that may be outmoded, and aides not presently employed, it is extremely difficult to project exact increases for any given district.

## HOW EFFECTIVE IS IGE?

Visits to IGE schools show there is no single set of IGE practices in operation. Even with the multiunit organization itself there are a number of variations in structure, policies and practices. A small percentage of the schools in their second year are not completely organized into units and continue partly in units and partly in age-graded classrooms. Also in some schools completely organized into units, the degree of implementation of the instructional programming model is diverse. Thus, some schools are effectively programming for the individual student in only one subject area, even after several years as IGE schools.

The degree of effectiveness seems to depend largely on the extent to which the various IGE components are implemented. The schools completely organized into units and also employing the instructional programming model in two or more curriculum areas are best able to understand the strengths and weaknesses of each child and can better use the skills and abilities of the unit staff to work in the various curriculum areas.

The importance of well functioning units and of strong principal leadership of the IIC is documented in a study of multiunit schools undertaken during the second semester of the 1967-68 school year. At that time the first multiunit schools were in their first year of operation and no instructional materials designed specifically for IGE were available from the Wisconsin center. Roland L. Pellegrin of the Center for the Advanced Study of Educational Administration (CASEA) at the U. of Oregon carried out the study.

Six schools were included in this study--both a multiunit school and a control school in three different communities. Two reports resulted from the studies, one dealing with decision making and professional satisfaction and the other with organizational characteristics of the multiunit school.

### Decision Making and Job Satisfaction

Overall, the study showed more participation by unit leaders and teachers in cooperative decision making about instruction and related matters in the three multiunit schools. In the control schools, decision making affecting classroom instruction was generally the prerogative of individual teachers, who were the primary decision makers, and the principal, who provided advice to individual teachers or set the limits within which individual teachers could make the decisions. In the multiunit schools, decisions were typically made by the unit staff in cooperation with the principal. Thus, whereas each teacher in the conventionally organized schools had more decision-making power

when it came to his own classroom, the multiunit teachers had greater responsibility for making policy decisions involving all the children of the respective units and also of the entire school building.

Job satisfaction and teacher morale were much higher in multiunit schools, the CASEA study found. Teachers were administered a 10-item job satisfaction scale. On three items, responses were similar for the two sets of schools. But there were significant differences on the other seven items, all in favor of the multiunit schools. These items and the percentages of teachers expressing high satisfaction follow:

	<u>Multiunit Schools</u>	<u>Control Schools</u>
Satisfaction with progress towards one's personal goals in present position.	29%	16%
Satisfaction with personal relationships with administrators and supervisors.	56%	44%
Opportunity to accept responsibility for one's own work or the work of others.	58%	47%
Seeing positive results from one's efforts.	39%	15%
Personal relationships with fellow teachers.	72%	57%
Satisfaction with present job in light of one's career expectations.	54%	42%
The availability of pertinent instructional aids and materials.	58%	32%

The CASEA team identified the following seven conditions which had a bearing on the high rate of satisfaction among multiunit teachers:

- The teacher is part of a group endeavor, rather than working in relative isolation. There are opportunities for close ties of cooperation among unit members.
- To a greater degree than in the control schools, teachers in the multiunit schools are able to concentrate on teaching, planning and preparing for instruction. Two reasons were given credit for this: (a) instructional and clerical aides, where they exist, relieve the teacher from routine work; and (b) nonteaching tasks performed by teachers in

traditional schools can be carried out by one person in a unit in the multiunit school.

- Teachers in multiunit schools see their environment as being freer, less rigid and more open to experimentation.
- Various forms of specialization are emerging in multiunit schools which make it possible for teachers to select duties according to their interests and talents and at the same time feel that they are heightening the effectiveness of the unit.
- An immediate resource person, the unit leader, is readily available to provide assistance, advice and consultation.
- The work environment of the multiunit school is new and may, for the short run, provide a positive influence on job satisfaction.
- Changes in the patterns of authority and decision making contribute to job satisfaction.

### **Organizational Characteristics**

Pellegrin's study dealt both with interaction patterns in multiunit and control schools and also with the division of labor (specialization in the unit and the role of the unit leader). Following are highlights:

Interaction patterns. Consistently, these early multiunit schools were successful in encouraging cooperative activities. Within an I & R unit, there were close relationships involving joint decision making between teachers (other than unit leaders) and the principal. In the control schools, the individual teachers were more dependent on the principal, and there was considerably less interaction among the teachers. This varied somewhat, particularly when teachers at one grade level coordinated their activities.

Division of labor. By and large, when specialization is discussed on an elementary school level, it is usually thought of as either subject-matter specialization or departmentalization and is usually considered in a negative light. This is generally true of both teachers and principals. In the multiunit school, however, there is a certain degree of specialization.

CASEA found three conventional forms of specialization as well as some less conventional forms in the three schools studied. Conventional forms are:

- Specialization by subject-matter. That is, one teacher in the unit may be more skilled at teaching science while another may be more skilled in other subject areas.
- Specialization by grade level. This is particularly true in larger units, despite the abolition of grades.
- Specialization by ability groupings. Often, because of particular skills or teaching techniques, some teachers work with various children who



are grouped by ability. Grouping by intellectual ability is not recommended by either the Wisconsin center or I/D/E/A.

Of the unconventional forms of specialization, the study team found three main types:

- Some teachers devote most of their time to working with individual students, while others work mainly with small groups or class-sized units. In two of the schools studied, individualization and small-group instruction were heavily emphasized. In those schools, some teachers reported spending up to 75% of their time working with individual students. Other teachers reported spending up to the same amount of time with small groups. In summing up on this point, the study team reported: "In the light of the emphasis given to individual and small-group instruction in the multiunit system, the development of such specializations are to be anticipated. There are, however, disparities in the amount of such instruction from one unit to another within a school. One of the schools had retained class-sized groups almost exclusively. Individualized instruction in this school consisted almost entirely of routine drill by instructional aides."
- The second type of specialization emerging in the multiunit school was that of teachers serving as expert advisors to the other teachers in their unit. In the obvious case, the teacher serving as the expert had some special training in that area. At other times, the teacher who served as the expert may have been asked to take responsibility for learning about developments in a particular area and then keeping the other members of the unit informed. This kind of specialization was found to be "a highly promising development by the CASEA study team. It permits a type of accumulation and pooling of knowledge not possible under different circumstances."
- The third type of specialization found relates to special assignments. In several units studied by the CASEA team, teachers were given special responsibilities for planning units of instruction. In one unit, the teachers planned different phases of the instructional units and each took responsibility for one or more phases of the total process. Such assignments were often temporary. This type of division, the report said, "offers opportunities to get jobs done that could hardly be obtained in a more permanent and fixed division of labor."

### Questions on Organization and Personnel

While the report itself stated that "it seems safe to say that the multi-unit school holds high promise of ameliorating some of the endemic problems encountered in elementary schools," a number of questions were raised about the organizational structure and roles of personnel:

1. What is the relationship between unit size and unit effectiveness? The CASEA study found that in smaller units, the degree of interdependence between teachers and between teachers and the unit leader was greater than in the larger unit. In larger units (for example, in one

with a unit leader and eight teachers), there was a tendency to become segmented into subgroups based largely on the initial grade level of the children before organizing into units.

2. What are the functions of the IIC? Two of the three multiunit schools studied by CASEA in the spring of 1968 had an IIC. (All three had IICs in 1970-71 and thereafter.) In one of these two schools, the IIC functioned primarily as a vehicle for channeling news to teachers. In the other schools with an IIC more time was spent in discussing questions relating to instruction, but even so there were misunderstandings concerning the exact functions of the committee. Further, there was a problem of conflicting authority between the IIC and the individual units. The question of which decisions were to be the exclusive domain of the unit members and which were to be made for the entire school by the IIC was never clearly stated, according to the study report.

3. What is the role of the unit leader and what is the role of the principal? The CASEA study devoted considerable attention to the relationships of the unit leader and principal and the divisions of labor between them. Among the three multiunit schools, there was no general agreement concerning the roles which should be emphasized in these positions. Particularly variable were the instructional-leadership tasks handled by the unit leader. In many cases, unit leaders had assumed tasks which should have been handled by the principal, according to the Wisconsin center model. In addition, it was clear that the principal's instructional leadership role should be different in a multiunit school--he will carry out his leadership more with the unit leaders, less with individual staff teachers. Yet, what his role should be, particularly when a unit experienced difficulty, was hard to determine.

In fact, the role of the principal is so hard to determine that even the principals themselves have a hard time defining it. Many principals have found that their main duty becomes one of passing information to and from unit leaders and teachers and the central office.

Some principals, who were reluctant to give their names, say they have merely become high-priced errand boys and would like to return to a traditional school where they play more of a supervisory role. On the other hand, many principals report they have adjusted easily to working in the IGE system and enjoy the stimulation of using the new methods and systems to help children learn.

The Wisconsin center has since addressed a substantial research and development effort to solve these problems. Center recommendations concerning unit size are mentioned earlier in the discussion of "the organizational set-up"--that is, a unit leader, three to five teachers, an instructional aide, a clerical aide and up to 150 children.

The center's recommendations have come about through five years of working with multiunit schools. Visits to IGE schools and both earlier and later written reports, such as that by CASEA, have shown a variety in the organizational-administrative patterns. Some schools move quickly to several desired conditions--the whole school organized into smoothly functioning I & R units,

regularly scheduled and productive IIC meetings, instruction in two or more curriculum areas carried out according to the model of instructional programming for the individual student, and desirable home-school-community relations. Slowness in moving toward the model is related to conditions within school districts and school buildings and also to the availability of inservice staff development programs, of high quality curriculum material suited to IGE and of other desired working conditions. Both the Wisconsin center and /I/D/E/A/ report on these conditions through their annual evaluation efforts and have long-term commitments to come up with better solutions through continuing efforts with the schools.

### **Making Use of Recommendations**

The Wisconsin center claims its most effective response to the schools' problems in implementing the new organizational-administrative arrangements has been to sharpen its inservice program, including the development of printed materials, slide films and IIC simulations. Also the center has established an implementation team of experienced multiunit building principals and unit leaders to conduct the initial inservice effort.

The center is currently engaged in nationwide implementation which was funded in March 1971 by a special grant from the U.S. Office of Education. The nationwide activities are carried out in a four-phase sequence:

- Awareness
- Installation
- Maintenance
- Refinement

In this effort the center implementation team works with implementation coordinators from various state education agencies and from central offices of large school districts. These coordinators in turn work with the staffs of local schools. Members of the implementation team also work with some of the staff of the local schools.

"Awareness" included information-giving conferences held throughout the country in 1971. The primary target group was building principals.

"First-year installation" includes four steps:

1. A one-day workshop for administrators and central office personnel is conducted the first time in a state or region by the Wisconsin center's staff and later by a state or local coordinator. The objective of the one-day workshop is to develop among state department and central office personnel an awareness of IGE. Chances for success at the building level are greater when a commitment has been made at the school district level. A second objective is to discuss and clarify the written agreement describing responsibilities and working arrangements between the center and implementation agencies as well as the written agreement describing responsibilities and working arrangements between the state implementation agency and the individual schools.

2. A three-day workshop for principals and prospective unit leaders is also initially conducted by the Wisconsin center staff. By the end of this workshop participants should be able to:



- Describe the organizational structure of the multiunit school.
- Identify the roles of the various personnel in the multiunit school.
- Explain the elements and processes of the instructional programming model.
- Outline the installation of the multiunit organization and IGE in their building.
- Describe the Wisconsin Design for Reading Skill Development--its elements and their functions.
- Conduct inservice programs for their entire building staff.

3. A three- to five-day workshop for the entire staff of each building is conducted prior to the opening of school by school personnel from the two workshops described above. Assistance from the center to only a few districts is possible since these workshops come mostly in August.

4. Four half-day inservice sessions for the entire building staff are conducted by implementation agency personnel with assistance as possible during the first year by the center's implementation team.

"Maintenance" includes one-week institutes on college campuses for experienced multiunit personnel. The Wisconsin State Dept. of Public Instruction has demonstrated that multiunit schools can begin operating and survive reasonably well for a year or two with the amount of assistance described earlier. However, field testing by the Wisconsin center staff in 1970-71 showed that many multiunit personnel had not fully acquired mastery of the concepts and were deficient in key skills. To remedy this situation, the Wisconsin center and cooperating teacher education institutions outlined one-week institutes for experienced multiunit principals, unit leaders and staff reading teachers. The one-week institutes for staff teachers of math, science and other curriculum areas will be added as the center develops programs in these areas. The focus of these institutes is to meet the immediate needs of the practicing staff members of multiunit schools.

"Refinement-Institutionalization" includes academic year programs with a practicum for multiunit school personnel--particularly the building principals and unit leader--a master's degree and a post-master's specialist certificate. This program was funded by USOE for only one year but three institutions will probably continue the programs without further USOE support.

Through the preceding implementation strategy, multiunit personnel are being more adequately prepared for their new roles than they were when the CASEA study was conducted in 1968. The Wisconsin center says many of the questions raised by the report concerning organization and roles of personnel have been dealt with in this four-phase installation sequence. It assures initial inservice training for local school staffs as well as continuing assistance from the state education agency and teacher education institutions. Further, the lead teacher role is beginning to be a career position that attracts key instructional personnel who assume much responsibility for planning educational experiences for children and on-the-job education for the unit staff. The building principal's role is also enhanced--he assumes greater initiative for instructional improvement and for better communication with personnel. The environment produced by these personnel in the multiunit setting should encourage self-renewal of the staff and related continuously changing and improved education for children.

## WHERE DO WE GO FROM HERE?

The growth of IGE schools across the country testifies to the acceptance of the concept by teachers, school administrators, parents and children. In the 1972-73 school year it is estimated that there will be more than 350 new schools working with the Wisconsin center and approximately 200 working with /I/D/E/A/. This will bring the total number of multiunit schools to well above 1,000. Many more schools have expressed an interest in IGE, say proponents, but they do not have the resources required to offer support services to an IGE network. "We can't add days to the calendar and we can't make up the money to hire new staff we'd need to expand the network," says Elaine McGregor, coordinator of statewide networks at the Wisconsin center.

Why the growing interest? School administrators give varying answers based on their own observations; the Wisconsin center cites data from formal studies which supports these practitioners' statements.

### IGE Expansion

Take for example the case of Des Moines, Iowa. Through the 1971-72 school year, Des Moines had five elementary schools that had converted to the multiunit model. Eight additional schools converted to the IGE system in the fall of 1972. Why? An answer is offered by James E. Bowman, director of elementary education in Des Moines: "The feedback we have received from teachers, parents and students in the five schools currently using the IGE program has indicated exceptional acceptance of the program and significant academic achievement. We feel confident that this program will be well received by the new schools and we look for excellent academic achievement in those schools in this program."

These comments can be repeated for school systems across the country that have switched to the IGE system. In Xenia, Ohio, William M. Hill, assistant superintendent of schools, says the attitudes of teachers have changed enormously. "We've got better teaching than we ever had before," Hill said. Lawrence D. Morgan of the Oregon City, Ohio, school district, cites team planning that has made the concept truly workable. "It's amazing the creativity that develops. It forces research. Our discipline has improved, and we have found that home-community liaisons have improved."

In Janesville, Wis., community response to the multiunit school has been extremely positive. Wilson Elementary School was one of the first multiunit schools started by the Wisconsin center. Since 1969, ten other Janesville schools have adopted this approach, and parents are demanding more. At a

school board meeting, one parent whose children were not in multiunit schools was quoted as saying, "I'm afraid we are the have nots and we'd rather be the haves." Another parent said he was "completely sold" on the multiunit concept. "It's great. I've seen such a change in my children. I hope all the schools can be this way. My neighbors are sold, too." Norman Graper, principal of the Wilson School, sums up the reasons for increased interest this way: "I think that primarily the children have a better self-image and understanding of what the school is trying to do for them. I think if the child feels good about himself and is learning, that's what sells the program."

### **Data from Current Studies**

Recent data support the contention that a child's self-concept as a learner is better in a multiunit than in a traditionally organized school. The study, "An Analysis of the Relationships of the Multiunit School Organizational Structure and Individually Guided Education to the Learning Climate of Pupils," was conducted in 1971-72 by Richard G. Nelson, a 1972 doctoral candidate at the U. of Wisconsin. (It is being published by the Wisconsin center as Technical Report No. 213.)

Nelson investigated the relationship of the multiunit organization to the learning climate of students. Learning climate was defined as "a combination of the behavioral and attitudinal variables in a pupil's immediate school setting which may affect learning." The variables included factors related to school morale and the student's self-concept as a learner.

The sample used in the study included 25 schools--13 multiunit and 12 control schools. The multiunit schools were selected based on the following criteria: the school must be fully organized in the multiunit pattern, must be in at least its second year of operation and must include students in the 9-12 age range (upper unit). The self-contained control schools were matched on the criteria of geographic location, size and socioeconomic background.

The instruments chosen for gathering data on learning climate included the school morale scale and the "semantic differential of self-concept as a learner." These instruments were combined and modified for use in the study as indicated by a pilot test conducted in one multiunit school and one control school, exclusive of the study's sample. Attendance and tardiness data were also collected using the total enrollment of each school in the sample.

Based on the findings of the study, the following conclusions were drawn with respect to multiunit schools:

1. Pupils in multiunit schools exhibited more positive learning attitudes than did pupils in traditionally organized schools.
2. Pupils in multiunit schools generally appeared to have a more positive self-concept as learners than did pupils in traditionally organized schools.
3. Pupils in multiunit schools displayed a more positive attitude toward their fellow pupils than did pupils in traditionally organized schools.

4. There was no difference between multiunit pupils and pupils in traditionally organized schools with respect to their attitude toward teachers.
5. Pupils in multiunit schools generally appeared to have a more positive attitude toward instruction than did pupils in traditionally organized schools.
6. Pupils in multiunit schools revealed a more positive attitude toward school in general (school morale) than did pupils in traditionally organized schools.
7. Pupils in multiunit schools had a more positive attitude toward their school plant than did pupils in traditionally organized schools.
8. There was no difference between multiunit pupils and pupils in traditionally organized schools with respect to their attitude toward administration and staff.
9. Pupils in multiunit schools exhibited a more positive attitude toward their community than did pupils in traditionally organized schools.
10. There was no difference between multiunit school pupils and pupils in traditionally organized schools with respect to their records of attendance and tardiness.

The study cites the following implications of its findings: "Those educators, whether they be school board members, administrators or classroom teachers who include in their list of educational objectives a concern with the attitudes of their pupils should welcome evidence that the school environment can make a difference in these areas." It does caution, however, that adoption of the IGE system "does not, in itself, guarantee an improved learning climate." Analysis of individual school pairs did show that in two districts, pupils in control schools scored higher on several items than did pupils in multiunit schools. The study points out that there are other factors which affect the learning climate (such as teacher personality or the student's home situation).

### **What Makes IGE Work?**

The implementation staff from the Wisconsin center believes that in order for the multiunit organization to show positive results it is not only necessary to be fully organized into units, including a functioning IIC, but it is also essential to be employing the instructional programming model (figure 3, p.8) in at least one curriculum area during the first year and in two or more areas thereafter. After all, the multiunit structure is only one component (that is, the organizational-administrative component) of IGE.

Curriculum materials, related statements of instructional objectives and criterion-referenced tests which can be adopted or adapted by schools are needed. The Wisconsin center is developing materials and instructional procedures in reading, prereading, motivation and mathematics. Parts of two of these programs--reading and motivation--are widely available in precommercial

versions for the 1972-73 school year. Field test results on both programs are encouraging.

### **Wisconsin's Reading Program**

The "Wisconsin Design for Reading Skill Development" links essential reading skills with related behavioral objectives and provides machine-scorable, criterion-referenced tests for assessing children's mastery of these skills from kindergarten to sixth grade. Resource materials and management procedures for teachers help them organize programs for individual children. The reading design program is organized into four areas: word attack; study skills; comprehension; and self-directed reading, interpretive reading and creative reading skills.

In the 1970-71 school year, the center began a two-year evaluation of the word attack element of the "Design." Data gathered in 23 schools chosen for intensive study provide an interesting commentary on the effectiveness of the reading program and on practices related to its implementation. The study was designed to represent a variety of community settings, reading achievement levels and school structures.

Pupil performance was evaluated with respect to the 45 word attack objectives. Specifically, performance of children who had experienced the word attack program for six months was compared to performance of non-participating pupils of the same age/grade characteristics in the same school one year earlier. In addition, standardized measures of performance on skills similar to those specified in the word attack element were applied and comparisons made between results for children who had participated in the program and those who had not.

Not surprisingly, the strongest effect of the program was revealed in the tests associated with the 45 word attack objectives. On more than 90% of the objectives, achievement of children with six months of word attack instruction was higher than that of children who had not participated in the program. This finding pertained to all subcategories of schools, including inner city and multiunit schools, as well as to the total number of schools.

Confirmation of improvement in the general area of word attack skills was provided by administering appropriate subtests of the Cooperative Primary and Stanford Achievement Test Batteries. In all instances, children who had participated in the word attack program scored as well as or better than children who had not had the design on measures of word analysis. In some of the inner city schools, dramatic gains were observed in the Cooperative Primary Phonics Analysis Test.

Since 11 of the field test schools were organized in conventional age-graded, self-contained classrooms, it was possible to look at the effect of introducing an IGE-oriented instructional program on a non-IGE organization.

The most encouraging result was that all schools reported cooperative planning and exchanging of pupils among teachers working at the same grade levels. Principals interviewed were enthusiastic about increased staff inter-



action, improved communication within the school, and better utilization of reading specialists which the design encouraged. Two of the self-contained schools elected to go multiunit at the end of the first field test year, and four other principals reported they were considering changing over in two years.

### **Wisconsin's Motivation Program**

The other instructional program developed by the Wisconsin center is Individually Guided Motivation (IGM)--a system of school motivation with a related inservice program for teachers. It calls for a cooperative effort in identifying general motivational objectives for all children in the school and then planning and carrying out motivational-instructional procedures based on each child's present level of motivation, achievement and self-direction. This program is being widely distributed by the Wisconsin center on a precommercial basis in 1972-73 and will be commercially available beginning in 1973. It was developed according to the center's model of instructional programming for the individual student (see figure 3, p.8) and has undergone extensive field testing.

Four motivational-instructional procedures provide the main means for aiding children who are low in motivation, achievement or self-direction:

- Teacher-child goal-setting conferences related to subject matter learning.
- Adult-child conferences to promote independent reading.
- Small-group conferences to encourage self-directed prosocial behaviors.
- Guiding older students as tutors of younger students.

Evaluations of the first three procedures and related inservice programs and materials in a number of Wisconsin schools indicate significant increases in student motivation and achievement accrue from using IGM procedures.

Three groups of students--totaling about 50 children--in three different Wisconsin schools made positive and at times dramatic gains in achievement while participating in the goal-setting conferences. Each group was made up of students whose rate of progress was very slow in a given skill area--math, word attack skills and sight vocabulary. Following a two-month period of individual goal-setting conferences, definite improvement was recorded for all three groups compared to a base period prior to the test. In all three, students' rate of progress after conferences ended remained high compared to the period before testing began.

In a field test of individual conferences to promote independent reading in 1970-71, the 65 adults who had conferences with 360 children reported large increases in the number of books the children read independently. In addition, grade equivalent gains on standardized tests of one year or more were observed for comprehension in grade 4 and reading speed in grade 6.

A small-scale evaluation of the small-group conferences to encourage self-directed prosocial behaviors was carried out during the 1971-72 school year. Early results are that children modified their behaviors to meet the goals which they set for themselves with teacher guidance. An important side effect of the conferences was increased communication and interaction

between students and teachers. A number of schools using the program found out more about their students' attitudes and other individual characteristics.

Officials of the Wisconsin center say the results obtained through use of the reading and motivation programs indicate the desirable effects of a concerted attack on curriculum improvement as proposed by a model of instructional programming for the individual student. They say that: the multiunit organization brings increased professional satisfaction among staff members and provides the flexibility necessary for scheduling instruction for the individual student; instructional materials and procedures designed specifically for individualizing instruction provide the means whereby a child can actually work at his own rate, in his own style, according to his own needs.

### **What's IGE's Future?**

What's ahead for tomorrow and the near future? There are already a few middle schools listed among IGE schools. And IGE specialists predict that in the next two to three years, IGE is going to expand into the secondary domain and that the number of middle schools, junior high schools and senior high schools will add appreciably to the list of operating multiunit schools. The Wisconsin center has developed an IGE model for secondary schools that will undergo pilot testing in a few schools during 1972-73. Administrators at the center say it takes at least three years from the formulation of a model through testing it in a variety of settings, and developing and testing a related inservice program. Until the inservice program is available and the costs for the new practices are competitive with existing practices, the center does not attempt to implement on a wide scale.

/I/D/E/A/ is also moving toward an IGE high school model. Its staff members foresee interdisciplinary learning units consisting of from six to nine teachers at the high school level and 10 to 12 teachers at the middle or junior high school level. The model-sized unit for an elementary school by comparison, is from three to five teachers. The basic elements of the secondary model would be the same as those in the elementary model, and /I/D/E/A/ set December 1972 as the target date for completion of its inservice program and materials for the middle and junior high models and December 1973 for completion of the high school model.

Under the /I/D/E/A/ setup, elementary school IGE would cover children aged 5 to 12; middle and junior high school IGE would serve students aged 10 to 15; and high school IGE would serve students 14 to 19. The /I/D/E/A/ concept of leagues to provide inter-unit linkages would be continued with separate leagues for elementary schools; separate leagues for middle, junior high and senior high schools; and combined leagues of elementary and middle schools.

/I/D/E/A/ and the Wisconsin center predict that their continued refinement and expansion of IGE will establish the IGE system as an accepted practice in America's schools for quite some time ahead. They say all education indicators point to continuing and growing interest in providing individualization of instruction for children. They see IGE as an opportunity for teachers to provide this individualized service within a structure which gives them freedom to try different approaches while at the same time provid-



ing them with assistance and consultation and the support of other teachers who are also working with IGE.

Perhaps the success of the IGE system, its proponents say, is not that it is a highly organized program in the sense that it sets up all the steps for teachers and students, but that it is an umbrella structure that provides a format for trying all kinds of different teaching methods, techniques and strategies with one basic idea in mind--giving each child the opportunity to learn with materials that are most suited to him and in a situation that is most suitable to his style of learning.

IGE proponents also point out that the IGE system with its models for organization and instruction is far more appealing to many teachers than the seemingly free "open classroom" because it offers the same kind of freedom to teachers and children and allows them to work in the atmosphere that is most suitable for both.

#### Where To Go for More Information

For further information on any aspect of Individually Guided Education, contact the following:

- Dr. Kenneth M. Schultz  
Innovative Programs  
Institute for Development of Educational Activities, Inc.  
5335 Far Hills Ave.  
Suite 300  
Dayton, Ohio 45429  
  
Phone: 513: 434-7300

OR

- Miss Mary S. Horn  
Assistant to the Deputy Director  
Wisconsin Research and Development Center for Cognitive Learning  
1025 W. Johnson St.  
Madison, Wis. 53706  
  
Phone: 608: 262-4901

OR

- One of the /I/D/E/A/ Intermediate Agencies (listed on p.37-39)
- One of the Wisconsin center's State Coordinators (listed on p.40)

## WORDS TO THE WISE

If there is any concrete advice that IGE participants feel should be offered to new school districts going into the IGE system, it is this: "Be sure that the people involved (that is, teachers, unit leaders and principals) know exactly what is entailed in the multiunit school program."

This advice was repeated by a number of school superintendents, principals, teachers and unit leaders. Roughly 90% of those interviewed stressed the importance of thorough teacher training and preparation. Some of the teachers interviewed made this additional comment: "If we aren't fully prepared and knowledgeable about what is involved in IGE, the program is going to flop. No matter how enthusiastic we are about the concept, putting it into operation requires complete understanding by all involved."

John Levigne, superintendent of schools in River Edge, N.J., added a few other comments: "Don't label the program. If you can upgrade logically and successfully, do it. Don't publicize it." When the plan was first broached at a public meeting in River Edge during the fall of 1971, Levigne added, a number of questions were raised that were difficult to answer to everyone's satisfaction.

"We have a K-6 school system, and our secondary school students go to a regional junior-senior high school district. One of the big concerns was, 'if you educate children under these new types of approaches, how will they fit into the junior high school setup?' Of course we explained that the junior high school staff was aware of what we were trying to do, and they knew they might have to make some adjustments for our children," Levigne explained.

"Then, of course, we got the standard question, 'We have a good school system, why change it?' How can you answer that question? We tried to tell people that no matter how good a school system is, if something worthwhile comes along, it is to the benefit of the students to try it. Who knows, it might make our good schools better."

In River Edge, IGE will be instituted in three schools. One school, with a K-4 enrollment, will be completely multiunit except for the kindergarten. The other two consist of grades 4-6 and in each school there will be an intermediate 4-5-6 unit. In New Jersey, the state education department selected 25 districts to participate in its program, which concentrated on training teachers and unit leaders to make them thoroughly familiar with the program.

Of 55 teachers and specialists in the River Edge system, 20 teachers wanted to take part in the multiunit plan. Of these, 12 classroom teachers

and two reading specialists were selected for the IGE system. For most of the teachers, the changes were drastic. "We were tired of going it alone," a number of them said. "We wanted a chance to work together professionally and really put into practice a lot of the ideas we had heard about." "This is really the emancipation of the classroom teacher," another teacher said. "No longer are we isolated within four walls and 25 children. Now we have a chance to really try teaching according to the way we learned."

Levigne and the staff feel strongly about IGE. "We want to promote the program. For the first time, we have an overall means to pull together the innovations of the past 20 years. And, despite what the critics say, the children will not be hurt. How can they be hurt when you offer them a variety of teaching situations and a variety of teachers. But the key to the whole program is enthusiastic teachers who are fully informed and feel capable of handling any situation."

In Livingston, N.J., Herbert Andlauer, the director of curriculum, also feels strongly about IGE and the multiunit school. "For the first time, we are putting into practice many of the concepts to which we have given lip service for many years. When you talk about individualized instruction, team teaching, individual assessments, you are talking about innovative ideas that have been around for a number of years. When you talk about the multiunit school, you talk about an umbrella program that permits the practical application of these and other innovations that have never really made it into the schools on a large scale."

Of Livingston's 3,875 students in grades K-6, about 520 in one of its schools were using the IGE system in math in the fall of 1972. "We felt that it would be easier and more proper to train our teachers to work more competently in one area at first. Later, of course, IGE will be expanded to include other subject areas."

The principal of Livingston's Callins School is deeply involved in the program. Of him, Andlauer said, "He was way ahead of it. Even before we ever heard of IGE or the multiunit school, he was trying to implement some of the elements that are part of IGE. As soon as there was a possibility of a state grant to work on IGE, he was all for it."

The principal, Leonard Bernstein, believes in IGE and the opportunities it offers to individualize instruction for each child. "Any one who says that you can teach the same thing to 25 youngsters and expect them to learn at the same rate and with the same degree of comprehension, doesn't know very much about children. IGE gives us the opportunity to devise individual teaching strategies for each youngster. For those who learn better in lecture type situations, there will be large-group instruction. For those who work better with one or two other children and a teacher, there is very small group instruction. We can provide different instructional settings, different kinds of materials and different teachers. You just can't do this in the traditional self-contained classroom," Bernstein said.

One problem the school district faced was the local education association. "The association was leery at first," Andlauer explained, "but the staff at Callins was totally enthusiastic. Their enthusiasm spread and now

we have another school that wants to get involved in IGE. Of our eight schools, some six have expressed varying degrees of interest.

"Two points of advice that I would offer school districts planning to start with IGE: work through your teachers. You cannot issue a proclamation or orders saying that a school will become an IGE school," Andlauer added. "The staff has to be the forcing agent. Make sure it's something the staff wants, only then can you commit the district. Second, make sure your teachers are thoroughly trained. No matter how enthusiastic the teachers are, they have to know what is expected of them. There is a lot of work involved on their part and if they aren't prepared for it, the whole thing will fall apart."

Livingston teachers are presently involved in weekly training sessions, and unit leaders are attending regional seminars, bringing back information and then passing it on to the staff. Twenty teachers are involved, and so far their enthusiasm has not diminished. "It's a lot of work," said one teacher. "There are so many things to keep in mind. And you really have to get to know the children. But it is satisfying to work with a group of teachers who are really professional. That, and the knowledge that you are going to make the education of each child individual and personally relevant, makes all the work worthwhile."

Another teacher agreed and then added: "You know, we talk about individualizing instruction for youngsters. I guess to some degree I did some individualizing within my own classroom. But to be able to offer each child different kinds of learning chances, with a teacher who might be more compatible, and with materials that might be closer to that child's mark, that's really individualizing. And that is great."

Cassadaga Valley Central School District in New York is somewhat different from the two New Jersey school districts. Cassadaga Valley has four IGE multiunit schools at the elementary level. Two of the schools have been multiunit schools since 1968, so the experience and advice from school officials, teachers and principals there perhaps carry more weight. Frederick Wilson, redesign coordinator for the school district, gives this advice: "Be sure that everyone--principals, unit leaders and teachers, especially the teachers--who are involved in the multiunit school knows exactly what the multiunit school operation entails. Unless the staff and everyone connected with any new system in the school knows the complete works, there will be problems. This is especially true for IGE because it really forces drastic changes in school organization and operation."

Successful implementation of IGE in Cassadaga is testified to by the two additional schools now in the program and the spread of the program to another school district in the same county in western New York. The four schools in Cassadaga serve about 800 students, almost the entire elementary school enrollment. When the multiunit school was initially organized, all subject areas were covered. "We felt that it was the best way to go. We just made sure that our teachers were well prepared for the setup."

Wilson cites two possible areas of concern in initiating the IGE system: teachers and parents. "We were extremely fortunate. The teachers in our

system were ready, willing and able to adapt to the IGE system. They were interested and involved in it right from the start. Without their initial interest in IGE and the multiunit school, we would never have gotten the program off the ground. Also, since we do have excellent school-community relations, there was no problem in getting parental acceptance of the program."

Wilson strongly recommended that principals be given a major role in setting up the program, training the teachers and developing the learning units.

Teachers in Cassadaga strongly recommend IGE. One teacher observed: "There's no other way to go. In the self-contained classroom all I did was give lip service to the great ideals of individualized instruction and a lot of other ideas for improving education. It was just impossible to keep up with everything. Now, I not only have time to teach the way any involved teacher wants to, but I also have the time to see if I'm hitting the mark. With the constant evaluation of the children, I can tell almost immediately who needs help. And with the other teachers in the unit, we can work out the best learning program for each child. I'm learning all the time. From those teachers who have better techniques for reaching certain children, I'm learning how to do my job better. I feel that there's no better educational setup for both the children and the teachers."

Other teachers, too, expressed similar feelings. "It's amazing how good I feel when I see a youngster get the understanding of an idea or concept and to know that the school and the teachers are really working for the child. For too long, schools were school centered. New programs would come along and we'd grab them because there were federal or state moneys attached. This is something the local district is operating, and even more directly, it's really school organized, not district controlled. It's the best thing I've run across in my years of teaching."

Despite the limited sample, there's no doubt that once teachers, unit leaders and principals get into the IGE system, they really become enthusiastic about the possibilities it offers them and the children. However, as most of them say, if you're not prepared, you can't do the job right.



**//I/D/E/A/ INTERMEDIATE AGENCIES  
Facilitators and Contact Persons**

Alabama

Dr. Richard Causey  
Auburn U.  
3002 Haley Center  
Auburn, Ala. 36830  
205: 826-4994

California

Dr. Rudy Weyland  
Tulare County Dept. of  
Education  
202 County Civic Center  
Visalia, Calif. 93227  
209: 732-5511

Colorado

Mr. James Hixson  
or Mr. Ron Horn  
or Mr. Ed Hildebrand  
Colorado Dept. of  
Education  
Colfax and Sherman  
Denver, Colo. 80203  
303: 892-3382

Florida

Dr. Jack Christian  
Alachua County School  
Board  
1817 E. University Ave.  
Gainesville, Fla. 32601  
904: 372-4391

Mr. George Mitchell  
Hillsborough County  
Schools  
707 E. Columbus Dr.  
Tampa, Fla. 33602  
813: 223-5331

Georgia

Mrs. Jacqueline Grant  
Bibb County Schools  
2064 Vineville Ave.  
PO Box 6157  
Macon, Ga. 31208  
912: 745-9211

Illinois

Sister Rosemary Conlon, OP  
Archdiocese of Chicago  
430 N. Michigan Ave.  
Chicago, Ill. 60611  
312: 527-3200

Illinois (Cont.)

Mr. Barton Gallegos  
Chicago Board of  
Education  
228 N. LaSalle St.  
Chicago, Ill. 60601  
312: 641-4020

Mr. John Madden  
School District 151  
c/o Madison School  
157th and Orchid Dr.  
South Holland, Ill. 60473  
312: 339-2117

Indiana

Dr. Robert Duncan  
or Dr. John Vaughn  
or Mr. Larry Wald  
Indiana U.  
333 S. Highland  
Bloomington, Ind. 47401  
812: 337-5362

Iowa

Mr. Jack Owens  
Des Moines Public Schools  
1800 Grand Ave.  
Des Moines, Iowa 50307  
515: 284-7911

Sister Frances Ruden  
Archdiocese of Dubuque  
Office of Education  
1229 Mount Loretta Ave.  
Dubuque, Iowa 52001  
319: 556-2580

Dr. John Martin  
or Dr. Donald V. Cox  
Iowa State Dept. of  
Public Instruction  
Grimes State Office Bldg.  
Des Moines, Iowa 50319  
515: 281-5294

Dr. George Hohl  
or Dr. Virgil S. Lagomarcino  
Iowa State U.  
Ames, Iowa 50010  
515: 294-7704

Iowa (cont.)

Dr. Glen Easterday  
Joint County School System  
4410 6th St. SW  
Cedar Rapids, Iowa 52406  
319: 366-7601

Massachusetts

Mr. Les Bernal  
Merrimack Education Center  
101 Mill Rd.  
Chelmsford, Mass. 01824  
617: 256-3985

Michigan

Sister Joyce Hoben, SND  
or Sister Evelyn Piche, OP  
Archdiocese of Detroit  
305 Michigan Ave.  
Detroit, Mich. 48226  
313: 965-4108

Mrs. Olga Moir  
Highland Park School District  
20 Bartlett Ave.  
Highland Park, Mich. 48203  
313: 868-1264

Mr. Donald Griffin  
Wayne County Intermediate  
School District  
1500 Kales Building  
76 W. Adams  
Detroit, Mich. 48226  
313: 224-2950

Dr. Kenneth Carlson  
Wayne-Westland Community  
School District  
3712 Williams St.  
Wayne, Mich. 48184  
313: 722-1500

Minnesota

Mr. Leonard Ojala  
Educational Research and  
Development Council of  
Northeast Minnesota (RAND)  
U. of Minnesota - Duluth  
Education 209B  
Duluth, Minn. 55812  
218: 726-8171

(more)

Minnesota (Cont.)

Mr. Frank Nauyokas  
Southwest Minnesota  
State College  
Marshall, Minn. 56258  
507: 537-7120

Mississippi

Mrs. Mildred Hust  
Jackson Public Schools  
PO Box 2338  
Jackson, Miss. 38205  
601: 948-4794

Mr. Norvell Burkett  
or Mr. Bart MacNeill  
Mississippi Educational  
Services Center  
Drawer NX  
State College, Miss. 39762  
601: 325-3917

Missouri

Dr. Fred Gies  
Center for Educational  
Improvement  
U. of Missouri  
College of Education  
203 Hill Hall  
Columbia, Mo. 65201  
314: 449-9745

Dr. Sam Wood  
U. of Missouri-St. Louis  
School of Education  
8001 Natural Bridge Rd.  
St. Louis, Mo. 63121  
314: 453-5109

Nebraska

Sister Frances Rhodes  
or Father Thomas F. O'Brien  
Archdiocese of Omaha  
3212 N. 60th St.  
Omaha, Neb. 68104  
402: 551-2042

New Jersey

Mr. Clarence Lynn  
New Careers in Education  
New Jersey State Dept.  
of Education  
1000 Spruce St.  
Trenton, N.J. 08625  
609: 292-7109

New Mexico

Mr. Wayne A. Winterton  
Albuquerque Area - BIA  
Box 8327  
Albuquerque, N.M. 87108  
505: 843-3160 (3161, 3162)

New York

Miss Jane Sheckells  
Syracuse City School District  
409 W. Genessee St.  
Syracuse, N.Y. 13202  
315: 474-6031

North Carolina

Miss Doris Hutchinson  
Greensboro Public Schools  
Drawer V  
Greensboro, N.C. 27402  
919: 275-8281

North Dakota

Dr. Donald K. Lemon  
College of Education  
U. of North Dakota  
Grand Forks, N.D. 58201  
701: 777-2674

Ohio

Mr. Donald Peters  
Ashtabula County Schools  
Jefferson, Ohio 44047  
216: 576-3881

Dr. John Hill  
or Dr. James LaPlant  
or Dr. Robert Price  
Dept. of Educational  
Administration  
U. of Cincinnati  
Cincinnati, Ohio 45221  
216: 475-3617

Mr. Dave Ashby  
Dayton Public Schools  
348 W. First St.  
Dayton, Ohio 45402  
216: 461-3850

Miss Natalie Holl  
Kent State University School  
Kent State U.  
Kent, Ohio 44242  
216: 672-2258

Ohio (Cont.)

Mr. David Killian  
School of Education  
Miami U.  
Oxford, Ohio 45056  
216: 529-4928

Dr. Thomas Gibney  
or Dr. Ed Nussel  
or Dr. Ron Warwick  
College of Education  
U. of Toledo  
Toledo, Ohio 43606  
419: 531-5711

Miss Carol Barnes  
or Dr. Lilburn Hoehn  
or Mr. Roger Randall  
Division of Education  
Wright State U.  
7751 Colonel Glenn Hwy.  
Dayton, Ohio 45431  
216: 426-6650 ext. 664

Dr. James Steele  
College of Education  
Youngstown State U.  
Youngstown, Ohio 44503  
216: 747-1492

Pennsylvania

Dr. Robert Hughes  
State College Area School  
District  
131 W. Nittany Ave.  
State College, Pa. 16801  
814: 237-6201

South Carolina

Mrs. Bobbie McEntire  
South Carolina Dept. of  
Education  
Rutledge Office Bldg.  
Columbia, S.C. 29201  
803: 758-3394

Tennessee

Mr. Floyd Edwards  
East Tennessee State U.  
Dept. of Education  
Johnson City, Tenn. 37601  
615: 926-1112

(more)



Texas

Dr. Henrietta Grooms  
or Mr. Von Rhea Beane  
Region VII Education  
Service Center  
PO Box 1622  
Kilgore, Texas 75662  
214: 984-8907

Mr. Donroy Hafner  
Director of Instructional  
Services  
Region XIII Education  
Service Center  
6504 Tracor Lane  
Austin, Tex. 78721  
512: 926-8080

Mr. Bill Brandon  
or Mr. Roberto Vela  
Southwest Educational  
Development Laboratory  
800 Brazos St.  
Austin, Tex. 78701  
512: 476-6861

Texas (Cont.)

Dr. Lee Ellwood  
Texas Educational  
Renewal Center  
6504 Tracor Lane  
Austin, Tex. 78721  
512: 926-8080

Virginia

Mr. Oliver Pamplin  
County of Albemarle  
Dept. of Education  
Room 310, County Office  
Building  
Charlottesville, Va. 22901  
703: 296-5621

Dr. Raymond A. O'Neill  
Arlington Public Schools  
1426 N. Quincy St.  
Arlington, Va. 22207  
703: 558-2843

Virginia (Cont.)

Mr. Ed Warehime  
Project PLACE  
Lynchburg Public Schools  
11th and Court Sts.  
Lynchburg, Va. 24504  
703: 847-1214

Washington

Mr. Dave Zeigler  
Bureau of School  
Service and Research  
U. of Washington  
Seattle, Wash. 98105  
206: 543-4940

Wisconsin

Mr. George Glasrud  
Wisconsin Dept. of Public  
Instruction  
126 Langdon St.  
Madison, Wis. 53702  
608: 266-2542

**WISCONSIN RESEARCH AND DEVELOPMENT CENTER  
State Coordinators and Contact Persons**

California

Mr. David Rawnsley  
555 Veterans Blvd.  
Room 118  
Red Wood City, Calif. 94063  
415: 364-4428

Dr. Warren Kallenbach  
San Jose State College  
125 S. 7th St.  
San Jose, Calif. 95114  
408: 277-2672

Colorado

Mr. James C. Hixson  
Senior Consultant (IGE)  
or Mr. Ronald Horn  
Consultant  
Improved Learning Unit  
Colorado Dept. of Education  
Colfax and Sherman Aves.  
Denver, Colo. 80203  
303: 892-3382

Connecticut

Mr. Walter E. Krupa  
IGE Coordinator  
Dept. of Education  
U. of Hartford  
200 Bloomfield Ave.  
West Hartford, Conn. 06117  
203: 523-4811

Mr. Michael F. Tobin  
Elementary School Consultant  
Conn. State Dept. of Education  
PO Box 2219  
Hartford, Conn. 06115  
203: 566-5808

Mrs. Louise Wickware  
Instructional Supervisor  
State Dept. of Education  
948 Main St.  
Willimantic, Conn. 06226  
203: 423-9571

Illinois

Mrs. Eleanor Buehrig  
Assistant Director  
Curriculum Development  
and Services Unit  
or Mr. Mason Rhue  
Consultant

Illinois (Cont.)

or Mr. Chalmar Moore  
Consultant  
Office of Superintendent of  
Public Instruction  
316 S. Second St.  
Springfield, Ill. 62706  
217: 525-3594

Indiana

Mr. Terry Jackson  
Coordinator - IGE/MUS-E  
ESEA Title III  
State Office Building  
Office No. 703  
Indianapolis, Ind. 46204  
317: 633-4355

Massachusetts

Mr. Les Bernal  
or Mr. Richard Lavin  
Merrimack Center  
101 Mill St.  
Chelmsford, Mass. 01824  
617: 256-3985

Minnesota

Mr. Richard Mesenburg  
Consultant IGE/MUS-E  
Dept. of Education  
Division of Instruction  
653 Capitol Square Building  
St. Paul Minn. 55101  
612: 296-3301

Nebraska

Dr. Betty Dillon  
PO Box 82889  
720 S. 22nd St.  
Lincoln, Neb. 68501  
402: 475-1081

New Jersey

Dr. Anthony E. Conte  
Director, New Careers  
in Education  
or Dr. Clarence Lynn  
Program Coordinator  
Office of Program  
Development  
New Jersey State Dept.  
of Education  
1000 Spruce St.  
Trenton, N.J. 08625  
609: 292-7109

New York

Mr. Ronald E. Hull  
Teacher Education Research  
Center  
State University College  
Fredonia, N.Y. 14063  
716: 673-3219

Ohio

Mr. C. William Phillips  
or Mr. Robert Weinfurtner  
Consultant  
Ohio Dept. of Education  
781 Northwest Blvd.  
Columbus, Ohio 43212  
614: 469-2979

South Carolina

Mrs. Bobbie McEntire  
IGE Facilitator  
State Dept. of Education  
803 Rutledge Building  
Columbia, S.C. 29201  
803: 758-3394

Wisconsin

Dr. Barbara Thompson  
Consultant  
Wisconsin Dept. of Public  
Instruction  
126 Langdon St.  
Madison, Wis. 53702  
608: 266-2542

Virginia

Mrs. Irene Lober  
Franklin Sherman  
Elementary School  
6630 Brawner St.  
McLean, Va. 22101  
703: 356-3874 / 356-6464

**Current as of  
May 1972**

## **IGE/Multiunit Schools with Relationships with the Wisconsin Center**

### **CALIFORNIA**

#### **BELMONT PUBLIC SCHOOLS**

Claude C. Turner, Supt.

Central School  
Charles Warda, principal  
525 Middle Road  
Belmont, Calif. 94002

#### **HILLSBOROUGH CITY SCHOOLS**

Dr. Tod A. Anton, Supt.

South School  
Mrs. Barbara Bandy, principal  
303 El Cerrito Ave.  
Hillsborough, Calif. 94010

#### **NEWARK UNIFIED SCHOOLS**

Dr. Donald Thomas, Supt.

Milani School  
Leo J. Hinkel, principal  
P.O. Box 385  
Newark, Calif. 94560

#### **OAKLAND CITY SCHOOLS**

Marcus A. Foster, Supt.

Martin Luther King, Jr., School  
Mrs. Minnie B. West, principal  
960 Tenth St.  
Oakland, Calif. 94607

#### **RAVENSWOOD CITY SCHOOLS**

John A. Minor, Supt.

Belle Haven School  
Willie C. Richardson, principal  
415 Ivy Drive  
Menlo Park, Calif. 94025

Brentwood School  
William Rybensky, principal  
2086 Clarke St.  
Palo Alto, Calif. 94303

Costano School  
Robert Guthrie, principal  
2695 Fordham St.  
Palo Alto, Calif. 94303

James Flood School  
Phillip Smith, principal  
320 Sheridan Drive  
Menlo Park, Calif. 94025

Kavanaugh School  
Tyler Spikes, principal  
2450 Ralmar St.  
Palo Alto, Calif. 94303

O'Connor School  
Neil Mulford, principal  
275 Elliott Drive  
Menlo Park, Calif. 94025

Runnymede School  
Mrs. Virginia Moulden, principal  
1286 Runnymede St.  
Palo Alto, Calif. 94303

Willow School  
Clarence Francois, principal  
620 Willow Road  
Menlo Park, Calif. 94025

### **COLORADO**

#### **ADAMS COUNTY PUBLIC SCHOOLS**

Daniel B. Stucky, Supt.

D. B. Stucky Elementary  
Gale G. Johnson, principal  
11080 Grant Drive  
Northglenn, Colo. 80233

#### **ADAMS-ARAPAHOE PUBLIC SCHOOLS**

Dr. Urban J. D. Leavitt, Supt.

Altura Boulevard Elementary  
John Dale, principal  
1650 Altura Ave.  
Aurora, Colo. 80010

#### **CHERRY CREEK PUBLIC SCHOOLS**

Dr. Edward C. Pino, Supt.

Greenwood  
Richard J. Morton, principal  
5550 South Holly St.  
Littleton, Colo. 80121

Holly Ridge Elementary School  
Mrs. Louise Corwin, principal  
3301 South Monaco Parkway  
Denver, Colo. 80222

#### **CLEAR CREEK PUBLIC SCHOOLS**

Robert Metzler, Supt.

Georgetown-Empire Elementary  
Earl Kennedy, Director of Learning  
Georgetown, Colo. 80444

Idaho Springs Elementary  
Earl Kennedy, Director of Learning  
Idaho Springs, Colo. 80452

#### **DENVER PUBLIC SCHOOLS**

Howard L. Johnson, Supt.

Cheltenham Elementary School  
Mrs. Virginia O. Hansen, principal  
150 Julian St.  
Denver, Colo. 80204

Ebert Elementary School  
Jack G. Hook, principal  
410 23rd St.  
Denver, Colo. 80205

#### **ARCHDIOCESE OF DENVER SCHOOLS**

Msgr. William Jones, Supt.

Guardian Angels' School  
Miss Rose Marie Fearn, principal  
1843 West 52nd Ave.  
Denver, Colo. 80221

#### **DURANGO PUBLIC SCHOOLS**

Dr. Edward L. Jutzeb, Supt.

Park Elementary School  
Norman E. Higgs, principal  
P.O. Box 181  
Durango, Colo. 81301

Riverview Elementary School  
John S. Wegher, principal  
P.O. Box 181  
Durango, Colo. 81301

#### **ENGLEWOOD PUBLIC SCHOOLS**

Donald Harpe, Supt.

Maddox Elementary School  
Arthur E. Harding, principal  
700 West Mansfield Ave.  
Englewood, Colo. 80110

#### **HARRISON PUBLIC SCHOOLS**

Wayne Bricker, Supt.

Pikes Peak Elementary School  
Larry K. Faubion, principal  
1520 Verde Drive  
Colorado Springs, Colo. 80910

#### **JEFFERSON COUNTY PUBLIC SCHOOLS**

Dr. Alton W. Cowan, Supt.

Bear Creek Elementary  
Wilbur N. Thompson, principal  
3125 South Kipling St.  
Morrison, Colo. 80465

Bergen Elementary  
Lawrence Schrader, principal  
R.R. 1—Box 352  
Evergreen, Colo. 80439

Green Gables Elementary  
Charles E. Teal, principal  
8701 West Woodard Drive  
Lakewood, Colo. 80226

Green Mountain Elementary  
William Boland, principal  
12250 West Kentucky Drive  
Lakewood, Colo. 80228

Juchem Elementary School  
Robert A. Morton, principal  
9955 Yukon St.  
Broomfield, Colo. 80020

Normandy Elementary School  
Elmer L. Richers, principal  
6750 South Kendall Blvd.  
Littleton, Colo. 80123

LA VETA PUBLIC SCHOOLS  
Eugene J. Coburn, Supt.

La Veta Elementary School  
Donald Johnson, principal  
P.O. Box 85  
La Veta, Colo. 81055

PARK COUNTY PUBLIC SCHOOLS NO. 1  
Frank Maher, Supt.

Platte Canyon Elementary  
Rodney L. Pekarek, principal  
Box 158  
Bailey, Colo. 80421

POUDRE PUBLIC SCHOOLS  
Don Webber, Supt.

Laurel Elementary School  
B. Keith Johnson, principal  
330 East Laurel St.  
Fort Collins, Colo. 80521

Riffenburgh Elementary School  
Robert D. Asmus, principal  
1320 East Stuart St.  
Fort Collins, Colo. 80521

PUEBLO CITY SCHOOLS  
Dr. Lee Williamson, Supt.

Fountain Elementary  
Myron Roberts, principal  
6th and Fountain Sts.  
Pueblo, Colo. 81001

Charles Goodnight Elementary  
Dick Elm, principal  
4701 Sage St.  
Pueblo, Colo. 81005

Olga A. Hellbeck Elementary  
Mrs. Marion A. Chanick, principal  
3400 Lakeview St.  
Pueblo, Colo. 81005

Irving Elementary School  
Edward Lane, principal  
21st and Halleck Sts.  
Pueblo, Colo. 81003

Jefferson Elementary School  
Stephen Hiza, principal  
Prairie and Thatcher Aves.  
Pueblo, Colo. 81005

PUEBLO COUNTY SCHOOLS  
Harry A. Allen, Supt.

Avondale Elementary School  
Dr. C. Thomas Pollard, principal  
P.O. Box 247  
Avondale, Colo. 81022

Vineland Elementary School  
Donald Gaylord, principal  
Route 1—Box 444  
Pueblo, Colo. 81004

ROCKY FORD PUBLIC SCHOOLS  
Leo F. Oavey, Supt.

Liberty Elementary School  
Ronald Fink, principal  
P.O. Box 311  
Rocky Ford, Colo. 81067

Washington Primary School  
Mrs. Barbara Evans, principal  
Box 311  
Rocky Ford, Colo. 81067

SOUTH ROUTT PUBLIC SCHOOLS  
William L. Meek, Supt.

South Routt Elementary  
Oliver Phillips, principal  
Box 97  
Yampa, Colo. 80483

THOMPSON PUBLIC SCHOOLS  
Dr. Claude Stansberry, Supt.

Big Thompson Elementary  
Mansel Worden, principal  
Star Route Box 400  
Loveland, Colo. 80537

WALSENBURG PAROCHIAL SCHOOLS  
Rev. Maurice Gallagher, Supt.

St. Mary's  
Sister Naomi Rosenberger, principal  
Seventh and Russell Sts.  
Walsenburg, Colo. 81089

WELD COUNTY PUBLIC SCHOOLS  
Dr. Kenneth Ripple, Supt.

Arlington Elementary  
Mrs. Winifred Gettman, principal  
9th Ave.—23rd St.  
Greeley, Colo. 80631

Brentwood Elementary  
Larry D. Charles, principal  
26th and 25th Aves.  
Greeley, Colo. 80631

Cameron Elementary  
Mrs. Catherine Rife, principal  
1424 13th Ave.  
Greeley, Colo. 80631

Chappelow East Elementary  
Paul Rutherford, principal  
9th and Golden Sts.  
P.O. Box 9  
Evans, Colo. 80620

Chappelow West Elementary  
Paul Rutherford, principal  
9th St. and 11th Ave.  
Evans, Colo. 80620

WELO COUNTY REORGANIZED SCHOOL  
DISTRICT RE-1  
Art Watson, Supt.

Platteville Elementary  
Frank Sass, principal  
P.O. Box 427  
Platteville, Colo. 80651

Scott Elementary  
Dr. Cecil A. Matthews, principal  
29th Ave. and 13th St.  
Greeley, Colo. 80631

WIOEFIELD PUBLIC SCHOOLS  
Dr. E. L. Clemmer, Supt.

South Security Elementary  
James F. Bolin, principal  
405 Willis Drive  
Security, Colo. 80911

## CONNECTICUT

AVON PUBLIC SCHOOLS  
Dr. Herbert F. Pandiscio, Supt.

Towpath Elementary  
Paul G. Gionfriddo, principal  
50 Simsbury Road  
Avon, Conn. 06001

BLOOMFIELD PUBLIC SCHOOLS  
Dr. Herbert Chester, Supt.

Bloomfield Middle School  
Harold E. Anderson, principal  
390 Park Ave.  
Bloomfield, Conn. 06002

Laurel School  
Stanley J. Wiodkowski, principal  
1 Filley St.  
Bloomfield, Conn. 06002

Metacomet School  
John E. Seidell, principal  
185 School St.  
Bloomfield, Conn. 06002

Joseph P. Vincent  
Nicholas O. Scapellati, principal  
Turkey Hill Road  
Bloomfield, Conn. 06002

Wintunbury School  
Joseph Prose, principal  
1133 Blue Hills Ave.  
Bloomfield, Conn. 06002

**EAST GRANBY PUBLIC SCHOOLS**  
Laroy Brown, Supt.

R. D. Seymour School  
James J. Johnson, principal  
Hartford Ave.  
East Granby, Conn. 06026

**EAST HARTFORD PUBLIC SCHOOLS**  
Dr. Eugene Diggs, Supt.

G. E. Slye School  
Raymond F. Brown, principal  
Kingston Drive  
East Hartford, Conn. 06108

Woodland School  
Ms. Emma H. Civittolo, principal  
110 Long Hill Drive  
East Hartford, Conn. 06108

**EAST WINDSOR PUBLIC SCHOOLS**  
Dr. Leo E. Garrepy, Supt.

Warehouse Point School  
Alfred F. Sancho, principal  
School Street  
Warehouse Point, Conn. 06088

**FARMINGTON PUBLIC SCHOOLS**  
John McDonough, Supt.

Union School  
John E. Keaveny, principal  
School St.  
Unionville, Conn. 06085

**GLASTONBURY PUBLIC SCHOOLS**

Naubuc School  
Kenneth Bilodeau, principal  
Glastonbury, Conn. 06033

**GRANBY PUBLIC SCHOOLS**  
Pasquale E. Starble, Supt.

Frank M. Kearns School  
John Snelgrove, Jr., principal  
5 Canton Road  
Granby, Conn. 06035

**MANCHESTER PUBLIC SCHOOLS**  
Dr. Donald Hennigan, Supt.

Manchester Green School  
Isidor Wolf, principal  
549 East Middle Turnpike  
Manchester, Conn. 06040

Nathan Hale Elementary  
Louis D. Saloom, principal  
160 Spruce St.  
Manchester, Conn. 06040

**PLAINVILLE PUBLIC SCHOOLS**  
Henry L. Bremner, Supt.

Linden Street School  
Dino W. Esposti, principal  
69 Linden St.  
Plainville, Conn. 06062

**ROCKY HILL PUBLIC SCHOOLS**  
Dr. Gar Fairbanks, Supt.

Myrtle H. Stevens School  
Anthony A. Morganti, principal  
322 Orchard St.  
Rocky Hill, Conn. 06067

West Hill School  
Louis Giantris, principal  
Cronin Drive  
Rocky Hill, Conn. 06067

**SIMSBURY PUBLIC SCHOOLS**  
Robert Lindauer, Supt.

Horace Belden School  
Russell G. Butterworth, principal  
933 Hopmeadow St.  
Simsbury, Conn. 06070

**SOUTHINGTON PUBLIC SCHOOLS**  
Dr. Joseph Robitaille, Supt.

West Ridge School  
Joseph J. Homicki, principal  
Ridgewood Road  
Southington, Conn. 06489

**WETHERSFIELD PUBLIC SCHOOLS**  
Dr. Otto Hufziger, Supt.

Emerson-Williams School  
Robert V. McCarthy, principal  
Wells Road  
Wethersfield, Conn. 06109

**WINDSOR PUBLIC SCHOOLS**  
Paul J. Sorbo, Jr., Supt.

Clover Street School  
Arthur W. Beckius, principal  
57 Clover St.  
Windsor, Conn. 06095

Deerfield School  
Neil R. Osborne, principal  
70 Colton St.

Windsor, Conn. 06095  
Oliver Ellsworth School  
John Proctor, principal  
Windsor, Conn. 06095

**ILLINOIS**

**BOND COUNTY COMMUNITY UNIT #2**  
William Nelson, Supt.

Greenville Elementary School  
Jim Kessinger, principal  
800 North Oewey St.  
Greenville, Ill. 62246

**CLINTON COMMUNITY SCHOOLS #15**  
William A. McNealy, Supt.

Lincoln Elementary School  
Joel Hart, principal  
407 South Jackson St.  
Clinton, Ill. 61727

**CRYSTAL LAKE SCHOOLS #47**  
Corbyn Hamby, Supt.

Canterbury Elementary  
Lloyd Mueller, principal  
875 Canterbury Drive  
Crystal Lake, Ill. 60014

Coventry Elementary  
Martin W. Anderson, principal  
820 Oarlington Lane  
Crystal Lake, Ill. 60014

**DIVERNON COMMUNITY SCHOOLS #13**  
George Pintar, Supt.

Divernon Elementary  
Donald Ornellas, principal  
P.O. Box B  
Divernon, Ill. 62530

**DOWNERS GROVE PUBLIC SCHOOLS #58**  
Glenn Pickrel, Supt.

Belle Aire School  
Ronald Hale, principal  
3935 Belle Aire Lane  
Downers Grove, Ill. 60515

El Sierra School  
Vernon Langley, principal  
6835 Fairmount St.  
Downers Grove, Ill. 60515

**EDWARDSVILLE PUBLIC SCHOOLS #7**  
A. Gordon Dods, Supt.

N. O. Nelson School  
Edward G. Kmies, principal  
1225 West High St.  
Edwardsville, Ill. 62025

**EVANSTON PUBLIC SCHOOLS #65**  
Gregory C. Coffin, Supt.

Oakton School  
David Sohn, principal  
Oakton and Ridge Sts.  
Evanston, Ill. 60201

**EVERGREEN PARK PUBLIC SCHOOLS #124**  
Robert C. Wall, Supt.

Northeast Elementary School  
Darrel Trotter, principal  
91st and California Ave.  
Evergreen Park, Ill. 60642

Northwest Elementary School  
Ms. Mary Margaret Moore, principal  
92nd and Millard Ave.  
Evergreen Park, Ill. 60642

Southeast Elementary School  
Gerhardt Engelmann, principal  
98th and Francisco Ave.  
Evergreen Park, Ill. 60642

Southwest Elementary School  
Phillip Pemberton, principal  
99th and Central Park  
Evergreen Park, Ill. 60642

ITASCA PUBLIC SCHOOLS #10  
Arnold Rusche, Supt.

Elmer H. Franzen Elementary  
Claude Drase, principal  
730 North Catalpa St.  
Itasca, Ill. 60143

Washington School  
C. William Wareham, principal  
301 East Washington St.  
Itasca, Ill. 60143

JACKSONVILLE PUBLIC SCHOOLS #117  
Dr. Clifford W. Crone, Supt.

Dwight D. Eisenhower Elementary  
Harry D. Emrick, principal  
1801 West Lafayette Ave.  
Jacksonville, Ill. 62650

LINCOLNWOOD PUBLIC SCHOOLS #74  
Dr. Marvin O'Garlich, Supt.

Rutledge Hall  
Dr. John Beckwith, principal  
6950 East Prairie Road  
Lincolnwood, Ill. 60645

LOMBARD PUBLIC SCHOOLS #44  
Robert Chelseth, Supt.

Peter Hoy Elementary School  
Robert Burckle, principal  
820 South Finley Road  
Lombard, Ill. 60148

MARISSA PUBLIC SCHOOLS #40  
LeRoy Trost, Supt.

Marissa Elementary School  
Marion E. Webb, principal  
East Fulton St.  
Marissa, Ill. 62257

MARKHAM COMMUNITY SCHOOL  
DISTRICT #144  
Harold Tompkins, Supt.

Pottawatomie (Chateaux)  
Kenneth Hoffman, principal  
171st and Holmes Ave.  
Hazel Crest, Ill. 60429

MEDINAH PUBLIC SCHOOLS  
Orval Trail, Supt.

South Elementary School  
Dr. G. W. Bowman, principal  
22 West—300 Sunnyside St.  
Medinah, Ill. 60157

MOLINE PUBLIC SCHOOLS #40  
Dr. Theodore F. Rockafellow, Supt.

Katherine Butterworth  
Douglas Lewis, principal  
4205 48th St.  
Moline, Ill. 61265

Ericsson School  
Frank DeRocker, principal  
335 Fifth Ave.  
Moline, Ill. 61265

Grant School  
Ben N. McAdams, principal  
2430 Sixth Ave.  
Moline, Ill. 61265

Lincoln-Irving School  
Richard Larson, principal  
1015 16th Ave.  
Moline, Ill. 61265

Horace Mann  
Richard Steelman, principal  
R.R. #1  
Box 115  
Moline, Ill. 61265

MT. MORRIS PUBLIC SCHOOLS #261  
David Turner, Supt.

Mt. Morris School  
Ms. Stella Baker, principal  
401 South Fletcher St.  
Mt. Morris, Ill. 61054

MUNDELEIN PUBLIC SCHOOLS #75  
Lyle Klitzkie, Supt.

Jefferson Elementary  
Frank Miraglio, principal  
330 North California Ave.  
Mundelein, Ill. 60060

Lincoln Elementary  
John P. Schockmel, principal  
200 West Maple St.  
Mundelein, Ill. 60060

Mechanics Grove School  
E. C. Bonhivert, principal  
1200 Midlothian Blvd.  
Mundelein, Ill. 60060

Carl Sandburg Jr. High  
A. D. Stealy, principal  
855 West Hawley St.  
Mundelein, Ill. 60060

Washington Elementary School  
Jack Murrell, principal  
122 South Garfield Ave.  
Mundelein, Ill. 60060

O'FALLON COMMUNITY SCHOOLS #90  
Harold J. Landwehrmier, Supt.

Estelle Kampmeyer School  
James N. Rogers, principal  
707 North Smiley St.  
O'Fallon, Ill. 62269

OREGON COMMUNITY SCHOOLS #220  
William Urbanek, Supt.

Nash Elementary  
Mrs. Robert Day, principal  
5th and Madison Sts.  
Oregon, Ill. 61061

POPE COUNTY SCHOOLS #1  
Ray Evans, Supt.

Golconda Grade School  
Golconda, Ill. 62938

QUINCY PUBLIC SCHOOLS #172  
William G. Alberts, Supt.

Lincoln School  
Donald McKinley, principal  
48th and Main Sts.  
Quincy, Ill. 62301

ROANOKE-BENSON PUBLIC SCHOOLS #60  
Frank Crawford, Supt.

Roanoke Grade School  
Robert C. Lillie, principal  
408 West Broad St.  
Roanoke, Ill. 61561

SCHAUMBURG-ROSELLE SCHOOLS #54  
Wayne E. Schaible, Supt.

Hanover Highlands School  
Robert J. Summerfield, principal  
1451 Cypress Ave.  
Hanover Park, Ill. 60172

TINLEY PARK PUBLIC SCHOOLS #146  
Walter F. Fierke, Supt.

W. F. Fierke Education Center  
E. Thomas, principal  
17248 67th Ave.  
c/o Central Jr. H.S.  
Tinley Park, Ill. 60477

TROY COMMUNITY SCHOOLS #30  
Don D. Bacon, Supt.

Troy-Cronin Multiunit Center  
Ronald Ludeman, principal  
Route 59 and Black Road  
Joliet, Ill. 60435

UNION RIDGE PUBLIC SCHOOLS #86  
Karl O. Grandt, Supt.

Union Ridge School  
Karl O. Grandt, principal  
4600 North Oak Park Ave.  
Harwood Heights, Ill. 60656

WATERLOO COMMUNITY SCHOOLS #5  
Merill Moore, Supt.

W. J. Zahnow Elementary  
William Reeves, principal  
301 Hamacher St.  
Waterloo, Ill. 62298



**WEST CHICAGO PUBLIC SCHOOLS #33**  
Jerald Saimon, Supt.

Pioneer School  
Douglas Weeder, principal  
615 Kenwood St.  
West Chicago, Ill. 60185

**WESTERN ILLINOIS UNIVERSITY  
LABORATORY SCHOOL**  
L. Donald Hahn, Supt.

Western Laboratory School  
L. Donald Hahn, principal  
Western Illinois University  
Macomb, Ill. 61455

**WOODLAND COMMUNITY SCHOOLS #50**  
Arden Luce, Supt.

Woodland Elementary School  
John Mason, principal  
1700 Gages Lake Road  
Gages Lake, Ill. 60030

**INDIANA**

**GARY PUBLIC SCHOOLS**  
Dr. Gordon McAndrew, Supt.

Beveridge School  
Edward Court, principal  
1234 Cleveland St.  
Gary, Ind. 46402

Marquette School  
Max Lynch, principal  
6401 Hemlock St.  
Gary, Ind. 46402

Riley Elementary School  
Alfred S. Govorchin, principal  
1301 East 43rd St.  
Gary, Ind. 46409

**INDIANAPOLIS PUBLIC SCHOOLS**  
Dr. Stanley Campbell, Supt.

Arlington Wood School  
Mrs. Mary A. Carpenter, principal  
5801 East 30th St.  
Indianapolis, Ind. 46218

Audubon School  
Mrs. Martha Ann Bradley, principal  
2050 Winter Ave.  
Indianapolis, Ind. 46218

Raymond Brandeis School  
William F. Wilson, principal  
4065 Asbury St.  
Indianapolis, Ind. 46227

George Washington Carver School  
Ms. Mary K. Owsley, principal  
2411 Indianapolis Ave.  
Indianapolis, Ind. 46208

Charity Dye School  
J. Hayes, principal  
545 East 19th St.  
Indianapolis, Ind. 46202

Flackville School  
Gordon E. Harker, principal  
2930 Lafayette Road  
Indianapolis, Ind. 46222

Calvin Fletcher School  
Paul K. Smith, principal  
520 Virginia Ave.  
Indianapolis, Ind. 46203

Robert Frost School  
Mrs. Wilma D. Brown, principal  
5301 Roxbury Road  
Indianapolis, Ind. 46226

Hazel Hart Hendricks School  
Mrs. Betty Chesley, principal  
2605 East 25th St.  
Indianapolis, Ind. 46218

John Hope School  
Dan Langell, principal  
1301 East 16th St.  
Indianapolis, Ind. 46202

Jonathan Jenning School  
Willard J. Powell, principal  
6150 Gateway Drive  
Indianapolis, Ind. 46254

Susan Roll Leach School  
Ms. Thelma Thompson, principal  
2107 North Riley St.  
Indianapolis, Ind. 46218

Henry Wadsworth Longfellow School  
Wayne Fairburn, principal  
501 Laurel St.  
Indianapolis, Ind. 46203

James Russell Lowell School  
Ms. Eula T. Warfield, principal  
2301 North Olney St.  
Indianapolis, Ind. 46218

John McCormick School  
Mrs. Madeline Sweatman, principal  
40 North Miley St.  
Indianapolis, Ind. 46222

Dewitt Morgan School  
Orville W. Rees, Jr., principal  
200 West 49th St.  
Indianapolis, Ind. 46208

Perry Morton School  
Ms. Estelle R. Relford, principal  
2101 College Ave.  
Indianapolis, Ind. 46205

Francis W. Parker School  
Benjamin Johnson, principal  
2353 Columbia St.  
Indianapolis, Ind. 46205

School #113  
Theodore R. Cox, principal  
4352 North Miltthoefer St.  
Indianapolis, Ind. 46236

Eleanor Skillen School  
Joseph A. O'Nan, principal  
1410 East Wade St.  
Indianapolis, Ind. 46203

**MASSACHUSETTS**

**BYAM PUBLIC SCHOOLS**

Byam School  
Daniel F. Horgon, principal  
Maple Road  
Chelmsford, Mass. 01824

**CHELMSFORD PUBLIC SCHOOLS**

Harrington School  
Mrs. Evelyn Desmarais  
Richardson Road  
Chelmsford, Mass. 01824

**FITCHBURG PUBLIC SCHOOLS**

McKay Campus School  
Dr. Robert Lee, principal  
Fitchburg State College  
Fitchburg, Mass. 01460

**LAWRENCE PUBLIC SCHOOLS**

Storrow School  
Mrs. Catherine Rivet, principal  
60 Pleasant St.  
Lawrence, Mass. 01841

**LITTLETON PUBLIC SCHOOLS**

Shattuck Street School  
Arthur Covell, principal  
Littleton, Mass. 01460

**METHUEN PUBLIC SCHOOLS**

Howe School  
Mrs. Margaret Ryan, principal  
11 Hempstead St.  
Methuen, Mass. 01844

Marsh School  
Mrs. Dorothy Zing, principal  
311 Pelham St.  
Methuen, Mass. 01844

**TEWKSBURY PUBLIC SCHOOLS**

Heathbrook School  
Nicholas Andronikos, principal  
Shawsheen St.  
Tewksbury, Mass. 01876

**TYNGSBORO PUBLIC SCHOOLS**

Winslow School  
Donald Brightman, principal  
Middlesex St.  
Tyngsboro, Mass. 01879

**WESTFORD PUBLIC SCHOOLS**

Valley View School  
John Allen, principal  
Robinson and Concord Roads  
Westford, Mass. 01886



**WILMINGTON PUBLIC SCHOOLS**

Shawsheen School  
Mrs. Joanne Myers, principal  
Shawsheen St.  
Wilmington, Mass. 01887

South School  
John Coyle, principal  
Woburn St.  
Wilmington, Mass. 01887

Woburn Street School  
John Crisafulli, principal  
Wilmington, Mass. 01887

**MINNESOTA**

**ALEXANDRIA PUBLIC SCHOOLS #206**  
Arthur O. Hafdal, Supt.

Garfield Elementary  
David Strand, principal  
Garfield, Minn. 56332

**ATWATER PUBLIC SCHOOLS #341**  
Erling Kolke, Supt.

Atwater Elementary  
Paul Olberg, principal  
Atwater, Minn. 56209

**BEMIDJI STATE COLLEGE**

Bemidji State College Lab School  
Gerald E. Nelson, principal  
Bemidji, Minn. 56601

**BOYD PUBLIC SCHOOLS**

Boyd Elementary  
Roy C. Roseth, principal  
Boyd, Minn. 56218

**BROOTEN PUBLIC SCHOOLS**  
Victor Clark, Supt.

Brooten Elementary  
Vern S. Hagen, principal  
Brooten, Minn. 56316

**BUFFALO LAKE PUBLIC SCHOOLS #647**  
M. O. Dokken, Supt.

Buffalo Lake Elementary  
Roger C. Lee, principal  
Buffalo Lake, Minn. 55314

**CENTENNIAL PUBLIC SCHOOLS #12**  
M. R. Hankerson, Supt.

Golden Lake Elementary  
Richard J. Larson, principal  
West Golden Lake Road  
Circle Pines, Minn. 55014

**DAWSON PUBLIC SCHOOLS**  
R. B. Clay, Supt.

Dawson Elementary  
C. L. Olson, principal  
Dawson, Minn. 56232

**GRANITE FALLS PUBLIC SCHOOLS #894**  
Milton H. Lindback, Supt.

Granite Falls Elementary  
Bert M. Raney, principal  
700 5th St.  
Granite Falls, Minn. 56241

**HIBBING PUBLIC SCHOOLS #701**  
Edward Eggers, Supt.

Washington Elementary  
Miss Nathalie Erspamer, principal  
21st St. and 12th Ave.  
Hibbing, Minn. 55746

**MADISON PUBLIC SCHOOLS #377**  
E. Palmer Rockswold, Supt.

Madison Elementary School  
R. Paul Jette, principal  
316 4th St.  
Madison, Minn. 56256

**MONTEVIDEO PUBLIC SCHOOLS #129**  
Ralph B. Norland, Supt.

Sanford Elementary  
Lloyd J. Olesen, principal  
Montevideo, Minn. 56265

**MOUNDS VIEW PUBLIC SCHOOLS #621**  
Dr. Sanford Witter, Supt.

Lake Johanna Elementary  
James H. Petersen, principal  
3120 Lake Johanna Blvd.  
St. Paul, Minn. 55112

New Brighton Elementary  
Lawrence A. Eickhoff, principal  
701 8th Ave. N.W.  
New Brighton, Minn. 55112

Ralph R. Reeder School  
Arlyn D. Gunderman, principal  
2800 North Arona St.  
St. Paul, Minn. 55113

**PIPESTONE PUBLIC SCHOOLS #583**  
T. B. Banard, Supt.

Dolson Hill Elementary  
Ken Stanek, principal  
6th Ave. S.W.  
Pipestone, Minn. 56164

**RICHFIELD PUBLIC SCHOOLS**  
Carlton Lytle, Supt.

Portland Elementary School  
Donald Buckman, principal  
7201 4th Ave. South  
Richfield, Minn. 55423

**ROSEVILLE AREA SCHOOLS**  
Dr. Lloyd C. Nielsen, Supt.

Central Park Elementary  
Harold M. Davis, principal  
535 West County Road B-2  
Roseville, Minn. 55113

**ST. ANTHONY VILLAGE SCHOOLS #282**  
Dr. Leland Renz, Supt.

Silver Oak Elementary  
David K. Abrahamson, principal  
350 Oakwood Drive  
New Brighton, Minn. 55112

**WACONIA PUBLIC SCHOOLS #110**  
R. G. Rygh, Supt.

Southview Elementary School  
James J. Kovaleski, principal  
4th and Maple Sts.  
Waconia, Minn. 55387

**WHITE BEAR LAKE PUBLIC SCHOOLS**  
E. M. Thomsen, Supt.

Birch Lake School  
Dr. W. D. Tismer, principal  
2260 Birch Lake Ave.  
White Bear Lake, Minn. 55110

**WILLMAR PUBLIC SCHOOLS #347**  
Lowell H. Melbye, Supt.

Jefferson Elementary School  
Alton J. Boonstra, principal  
1202 Monongalia Ave.  
Willmar, Minn. 56201

**WORTHINGTON PUBLIC SCHOOLS #518**  
S. L. Held, Supt.

Reading Elementary School  
John C. Johnson, principal  
Box 48  
Reading, Minn. 56165

**NEBRASKA**

**LINCOLN PUBLIC SCHOOLS**  
John Prasch, Supt.

Eastridge Elementary School  
Miss Inez Baker, principal  
6245 L St.  
Lincoln, Neb. 68516

Hawthorne School  
Ms. Ruthelen Sittler, principal  
300 South 48th St.  
Lincoln, Neb. 68510

Holmes Elementary School  
Ms. Ruth I. Eickman, principal  
52nd and Sumner Sts.  
Lincoln, Neb. 68506

Lake View Elementary  
Dan Navratil, principal  
300 Capitol Beach Blvd.  
Lincoln, Neb. 68528

Pershing School  
Vern Martin, principal  
6402 Judson St.  
Lincoln, Neb. 68507

Prescott Elementary  
Bernard Nutt, principal  
2024 South 20th St.  
Lincoln, Neb. 68502

Randolph Elementary  
Marlan Kaufman, principal  
1024 South 37th St.  
Lincoln, Neb. 68510

Maude Rousseau School  
Mrs. Frances Enevoldsen, principal  
3701 South 33rd St.  
Lincoln, Neb. 68506

West Lincoln School  
Dan Conway, principal  
630 West Dawes St.  
Lincoln, Neb. 68521

#### OMAHA PUBLIC SCHOOLS

Oakdale School  
Dennis C. Hansen, principal  
98th and Center Sts.  
Omaha, Neb. 68114

#### NEW JERSEY

CAMDEN PUBLIC SCHOOLS  
Dr. Charles Smerin, Supt.

Yorkship Elementary School  
Mrs. T. Sternberg, principal  
Collings Road  
Camden, N.J. 08101

CHATHAM BOROUGH PUBLIC SCHOOLS  
Dr. James S. Collins, Supt.

Washington Avenue School  
Arthur Ebeling, principal  
Washington Ave.  
Chatham, N.J. 07928

CHATHAM TOWNSHIP PUBLIC SCHOOLS  
Ellwood B. Jacoby, Supt.

Southern Boulevard Elementary  
Miss Bernadette A. Jernick, principal  
192 Southern Boulevard  
Chatham, N.J. 07928

CALDWELL-WEST CALDWELL PUBLIC SCHOOLS  
Eugene J. Bradford, Supt.

Lincoln Elementary  
Miss Helen Galloway, principal  
Crane St.  
Caldwell, N.J. 07006

DOVER PUBLIC SCHOOLS  
Frank Poulos, Supt.

Academy Street School  
John Duffy, principal  
Academy St.  
Dover, N.J. 07801

EAST ORANGE PUBLIC SCHOOLS  
Dr. Russell A. Jackson, Jr., Supt.

The Nassau School  
Melvin Sanders, principal  
330 Central Ave.  
East Orange, N.J. 07017

GLEN RIDGE PUBLIC SCHOOLS  
James F. Gray, Supt.

Linden Avenue School  
Mrs. Evelyn Jan-Tausch, principal  
Linden Ave.  
Glen Ridge, N.J. 07028

HIGHLAND PARK PUBLIC SCHOOLS  
Roy D. Loux, Supt.

Irving School  
Ronald Erikson, principal  
South Eleventh Ave.  
Highland Park, N.J. 08904

LAVALLETTE PUBLIC SCHOOLS  
Russell O. Brackman, Pres.

Lavallette Elementary  
Dr. Mahlon Merk, principal  
Brooklyn Ave.  
Lavallette, N.J. 08735

LIVINGSTON PUBLIC SCHOOLS  
Julius C. Bernstein, Supt.

Callins School  
Leonard Bernstein, principal  
67 Martin Road  
Livingston, N.J. 07039

MADISON TOWNSHIP PUBLIC SCHOOLS  
Patrick Torre, Supt.

Cheesequake School  
Mrs. Nancy Mannings, principal  
Highway 34  
Matawan, N.J. 07747

MIDDLETOWN TOWNSHIP PUBLIC SCHOOLS  
Bernhardt Schneider, Supt.

Fairview Elementary  
Robert Smith, principal  
Cooper Road  
Red Bank, N.J. 07701

NEWTON PUBLIC SCHOOLS  
Dr. David Adler, Supt.

Merriam Avenue School  
Harry Selover, principal  
Merriam Ave.  
Newton, N.J. 07860

NORTH BRUNSWICK TOWNSHIP PUBLIC SCHOOLS  
James J. Clancy, Supt.

Maple Mead School  
Harvey Velmick, principal  
Route 130  
North Brunswick, N.J. 08902

PATERSON PUBLIC SCHOOLS  
Dr. Michael Gioia, Supt.

Public School #27  
Mrs. Anne T. Carrera, principal  
Richmond, Berkshire & Chatham Aves.  
Paterson, N.J. 07505

PLEASANTVILLE PUBLIC SCHOOLS  
Robert Wendland, Supt.

South Main Street School  
John Garrity, principal  
South Main St.  
Pleasantville, N.J. 08232

POMPTON LAKE PUBLIC SCHOOL  
Enrico J. Cipolaro, Supt.

Lincoln School  
Christian Stager, principal  
Mill St.  
Pompton Lake, N.J. 07442

RED BANK PUBLIC SCHOOLS  
Dr. Robert Hoops, Supt.

The Red Bank Primary School  
Vincent Finelli, principal  
River St.  
Red Bank, N.J. 07701

RIVER EDGE PUBLIC SCHOOLS  
Dr. John LeVigne, Supt.

Holly M. Davis Elementary  
John Choka, principal  
Cole Court  
River Edge, N.J. 07661

SECAUCUS PUBLIC SCHOOLS  
Arthur F. Couch, Supt.

Claredon School  
Miss Rita Kock, principal  
685 Fifth St.  
Secaucus, N.J. 07094

TRENTON PUBLIC SCHOOLS  
Dr. Ercell I. Watson, Supt.

Wilson School  
Joseph Cordero, principal  
Girard Ave.  
Trenton, N.J. 08611

VENTNOR CITY PUBLIC SCHOOLS  
Chester Ogden, Supt.

Ventnor Middle School  
Mrs. Margaret S. DiMatteo, principal  
Ventnor City, N.J. 08406

**VINELAND PUBLIC SCHOOLS**  
Dr. Anthony Catrambone, Supt.

Winslow School  
John Richards, principal  
Magnolia Ave.  
Vineland, N.J. 08360

**WAYNE TOWNSHIP PUBLIC SCHOOLS**  
David H. O'Grady, Supt.

Packanack School  
Richard York, principal  
190 Oakwood Drive  
Wayne, N.J. 07470

**WHARTON BOROUGH PUBLIC SCHOOLS**  
Thomas C. O'Rourke, Supt.

Wharton Public School  
Francis DeBell, principal  
East Central Ave.  
Wharton, N.J. 07885

**NEW YORK**

**CASSADAGA VALLEY CENTRAL SCHOOLS**  
Samuel S. Danton, Supt.

Cassadaga Elementary  
Wendell Crabtree, principal  
175 Maple Ave.  
Cassadaga, N.Y. 14718

Gerry Elementary  
Elmer Horey, principal  
Gerry, N.Y. 14740

Sinclairville Elementary  
Elmer Horey, principal  
Sinclairville, N.Y. 14782

Stockton Elementary  
Wendell Crabtree, principal  
Stockton, N.Y. 14784

**FALCONER CENTRAL SCHOOLS**  
James H. Gassman, Supt.

Ellington Elementary  
Rudolf Donn, principal  
Ellington, N.Y. 14701

Harvey C. Fenner Elementary  
Herbert I. F. Carlson, principal  
Falconer, N.Y. 14733

North Side School  
Mrs. Lucy Mula, principal  
North Work St.  
Falconer, N.Y. 14733

South Side School  
Richard Pond, principal  
South Work St.  
Falconer, N.Y. 14733

Temple Elementary Building  
Donald S. Lazarony, principal  
Grubb Hill Road  
Kennedy, N.Y. 14747

**NIAGARA FALLS SCHOOLS**  
Henry J. Kalfas, Supt.

Pacific Avenue School  
Wilfred L. Young, principal  
7116 Buffalo Ave.  
Niagara Falls, N.Y. 14302

**SOUTHWESTERN CENTRAL SCHOOLS**  
Dr. Philip C. Frost, Supt.

Glidden Elementary  
Ms. Lois Hough, principal  
7 Glidden Ave., W.D.  
West Ellicott, N.Y. 14701

**WILLIAMSVILLE CENTRAL SCHOOLS**  
Dr. William E. Keller, Supt.

Maple West Elementary  
Anthony E. Link, principal  
851 Maple Road  
Williamsville, N.Y. 14221

**OHIO**

**BOARDMAN LOCAL SCHOOLS**  
Grant F. Kibbel, Supt.

Market Street School  
Harold E. Cullar, principal  
5555 Market St.  
Boardman, Ohio 44512

**CENTERVILLE CITY SCHOOLS**  
Dr. Donald Overly, Supt.

Normandy Elementary  
Robert Savage, principal  
401 Normandy Ridge Road  
Dayton, Ohio 45459

C. L. Stingley Multiunit Elementary  
James M. Schrote, principal  
95 Linden Drive  
Centerville, Ohio 45459

Village South Elementary  
Mrs. Jean N. Vesper, principal  
6450 Marshall Road  
Centerville, Ohio 45459

**LIBERTY LOCAL SCHOOLS**  
H. M. Wilds, Supt.

William S. Guy School  
William R. Dunmire, principal  
4115 Shady Road  
Youngstown, Ohio 44505

**MISSISSINAWA VALLEY PUBLIC SCHOOLS**  
Douglas Reeves, Supt.

East Side School  
Dr. Joseph B. Carnot, principal  
116 Sycamore St.  
Union City, Ohio 47390

**OREGON PUBLIC SCHOOLS**  
Victor C. Wood, Supt.

Starr Elementary School  
Don Bennett, principal  
3230 Starr Ave.  
Oregon, Ohio 43616

**TOLEDO PUBLIC SCHOOLS**  
Frank Dick, Supt.

Glendale School  
Philip Schneider, principal  
4746 Glendale Ave.  
Toledo, Ohio 43614

Martin Luther King School  
Al Mackie, principal  
1415 Lawrence Ave.  
Toledo, Ohio 43607

Old Orchard School  
Bruce Kuntz, principal  
2402 Cheltenham Road  
Toledo, Ohio 43606

Walbridge School  
Ms. Patricia A. Kennedy, principal  
1245 Walbridge Ave.  
Toledo, Ohio 43609

Washington School  
Alvin Stephens, principal  
514 Palmwood St.  
Toledo, Ohio 43602

**WARREN PUBLIC SCHOOLS**  
Dr. Richard A. Boyd, Supt.

McKinley School  
Albert R. Rich, principal  
1321 Elm Road, N.E.  
Warren, Ohio 44483

**XENIA PUBLIC SCHOOLS**  
William M. West, Supt.

Cox Elementary  
John C. Balmer, principal  
506 Dayton Ave.  
Xenia, Ohio 45385

Simon Kenton Elementary  
Armic Adams, principal  
1087 West Second St.  
Xenia, Ohio 45385

McKinley Elementary  
Richard W. Bennett, principal  
228 West Market St.  
Xenia, Ohio 45385

Spring Valley School  
Wilgus J. Napier, principal  
Spring Valley-Paintersville Road  
Spring Valley, Ohio 45370

**YELLOW SPRINGS EXEMPTED VILLAGE SCHOOLS**  
Lloyd Benham, Supt.

Mills Lawn Elementary  
Mrs. Alice Flowers, principal  
200 Walnut St.  
Yellow Springs, Ohio 45387

**YOUNGSTOWN DIOCESE SCHOOLS**  
Msgr. William Hughes, Supt.

Immaculate Conception School  
Sister Teresa Winsen, principal  
810 Oak St.  
Youngstown, Ohio 44506

**YOUNGSTOWN PUBLIC SCHOOLS**  
Dr. Richard Viering, Supt.

Paul C. Bunn School  
Samuel A. Loree, principal  
1825 Sequoya Drive  
Youngstown, Ohio 44514

Sheridan School  
Ms. Ruth Bowers, principal  
3321 Hudson Ave.  
Youngstown, Ohio 44511

**SOUTH CAROLINA**

**ABBEVILLE PUBLIC SCHOOLS**  
R. H. Gettys, Supt.

Sharon Elementary  
J. E. Copeland, principal  
Route 3  
Abbeville, S.C. 29620

**AIKEN COUNTY SCHOOLS**  
Dr. G. T. Myers, Supt.

East Aiken Elementary  
Kenneth V. Willis, principal  
Old Wagener Road  
Aiken, S.C. 29801

Ridge Spring-Monetta School  
B. Wade Nobles, principal  
P.O. Box 386  
Ridge Spring, S.C. 29129

**BERKELEY COUNTY SCHOOLS**  
Henry Bonner, Supt.

Berkeley Elementary  
James A. Arnold, principal  
107 West Main St.  
Moncks Corner, S.C. 29461

**CHARLESTON COUNTY SCHOOL DISTRICT**  
Dr. Gordon Garrett, Supt.

Alice Birney Elementary School  
Andrew Young, principal  
7750 Pinehurst St.  
Charleston Heights, S.C. 29405

**CHESTER COUNTY SCHOOLS**  
E. W. Nunnery, Supt.

Lewisville Elementary  
Mrs. Jennie K. Kelly, principal  
Route 1  
Box 120  
Edgemoor, S.C. 29712

**CHESTERFIELD COUNTY SCHOOLS**  
Spencer E. Douglas, Supt.

Ruby Elementary  
Gary E. Douglas, principal  
P.O. Box 7  
Ruby, S.C. 29741

**COLUMBIA PUBLIC SCHOOLS**  
Dr. C. E. Kitchens, Supt.

Belvedere Elementary  
Miss Virginia Pack, principal  
3602 Thurmond St.  
Columbia, S.C. 29204

**DARLINGTON COUNTY SCHOOL DISTRICT**  
G. C. Mangum, Supt.

Spring Elementary  
Mrs. Alice B. Mangum, principal  
Box 498  
Darlington, S.C. 29532

**GREENVILLE COUNTY SCHOOLS**  
Dr. J. Floyd Hall, Supt.

Greer Middle School  
David J. Vickery, principal  
Route 6  
Chandler Road  
Greer, S.C. 29651

**JASPER PUBLIC SCHOOLS**  
S. E. Bonds, Jr., Supt.

Hardeeville Elementary  
Sam P. Massey, principal  
P. O. C. 584  
Hardeeville, S.C. 29927

**KERSHAW COUNTY SCHOOLS**  
J. C. Walton, Supt.

Camden Elementary  
Alexander H. Boykin, principal  
Campbell St.  
P.O. Box 369  
Camden, S.C. 29020

**LANCASTER CITY SCHOOLS**  
Donald L. Crolley, Supt.

McDonald-Green Elementary  
Miss Anne R. Nims, principal  
Route 7  
Lancaster, S.C. 29720

**LEXINGTON COUNTY SCHOOLS**  
W. C. Hawkins, Supt.

Seven Oaks Elementary  
Wm. Tim Brown, principal  
2800 Ashland Road  
Columbia, S.C. 29210

**RICHLAND COUNTY SCHOOLS #1**  
Dr. Claud E. Kitchens, Supt.

Caughman Road Middle School  
Clifton L. Harkey, principal  
7725 Caughman Road  
Columbia, S.C. 29209

John P. Thomas Elementary  
James A. Shaw, principal  
6001 Weston Ave.  
Columbia, S.C. 29203

**RICHLAND COUNTY SCHOOLS #2**  
W. H. Parrish, Supt.

Blythewood Elementary  
James H. Hall, Jr., principal  
P.O. Box 20  
Blythewood, S.C. 29016

Condor Elementary  
Charles T. Bright, principal  
8161 Brookfield Road  
Columbia, S.C. 29206

Lonnie B. Nelson Elementary  
Fred W. Rogers, principal  
Route 3  
Box 266J  
Columbia, S.C. 29204

**SUMTER PUBLIC SCHOOLS**  
Dr. L. C. McArthur, Jr., Supt.

Willow Drive Elementary  
D. F. Barber, Jr., principal  
Willow Drive  
Sumter, S.C. 29150

**VIRGINIA**

**FAIRFAX COUNTY SCHOOLS**  
S. John Davis, Supt.

Franklin Sherman Elementary  
Mrs. Irene Lober, principal  
6630 Brawner St.  
McLean, Va. 22101

**WISCONSIN**

**ALGOMA PUBLIC SCHOOLS**  
Gerald F. Thielke, Supt.

Algoma Elementary School  
Marvin J. Sibilsky, principal  
514 Freemont St.  
Algoma, Wis. 54201

**APPLETON PUBLIC SCHOOLS**  
Orlyn Zieman, Supt.

Edison Elementary  
Miss Charlotte Klemm, principal  
412 North Meade St.  
Appleton, Wis. 54911

Foster School  
William C. Schultz, principal  
305 West Foster St.  
Appleton, Wis. 54911

Franklin Elementary  
Richard D. Goree, principal  
2212 North Jarchow St.  
Appleton, Wis. 54911

Daniel Huntley Elementary  
Richard F. Haas, principal  
2224 North Ullman St.  
Appleton, Wis. 54911

Jonnston Elementary School  
Charles Lynch, principal  
2525 East Forest St.  
Appleton, Wis. 54911

McKinley Elementary School  
Thomas R. Loveall, principal  
1125 East Taft Ave.  
Appleton, Wis. 54911

**BARABOO PUBLIC SCHOOLS**  
Leo Bronkalla, Supt.

Fairfield Center  
Kenneth Vertein, principal  
R. R. 1  
Baraboo, Wis. 53913

Gordon L. Willson School  
Robert Kaschel, principal  
146 Berkeley Blvd.  
Baraboo, Wis. 53913

**BLACK RIVER FALLS PUBLIC SCHOOLS**  
M. C. Schmollenberg, Supt.

Forrest Street Elementary  
Phillip E. Meyer, principal  
Forrest St.  
Black River Falls, Wis. 54615

**BRODHEAD PUBLIC SCHOOLS**  
C. E. Thompson, Supt.

Brodhead Elementary School  
Ron Alhecht, principal  
600 21st St.  
Brodhead, Wis. 53520

**CEDARBURG PUBLIC SCHOOLS**  
Frank M. Kennedy, Supt.

Parkview Elementary School  
Warren Schollaert, principal  
1155 North 10th Ave.  
Cedarburg, Wis. 53012

Thorson Elementary  
Ronald J. Zwadzich, principal  
1330 Kaup Road  
Cedarburg, Wis. 53012

Westlawn Elementary School  
Lawrence R. Entress, principal  
625 South Third Ave.  
Cedarburg, Wis. 53012

**CLINTONVILLE PUBLIC SCHOOLS**  
Mr. Wadleigh, Supt.

Bear Creek Primary  
O. Reed Newton, principal  
Bear Creek, Wis. 54922

**COLUMBUS PUBLIC SCHOOLS**  
M. A. Patchett, Supt.

Dickason Elementary and Columbus  
Junior High  
Richard Minorik, principal  
400 South Dickason Blvd.  
Columbus, Wis. 53925

**CUDAHY PUBLIC SCHOOLS**  
Walter Ploetz, Supt.

General Mitchell School  
John P. Wohlfarth, principal  
5950 South Illinois Ave.  
Cudahy, Wis. 53110

Park View School  
John Misun, principal  
5555 South Nicholson Ave.  
Cudahy, Wis. 53110

**EAU CLAIRE PUBLIC SCHOOLS**  
Dr. Marvin Lansing, Supt.

Barstow Elementary School  
Roger Barstad, principal  
500 North Barstow St.  
Eau Claire, Wis. 54701

Locust Lane School  
Roger E. DeRusha, principal  
3245 Locust Lane  
Eau Claire, Wis. 54701

W. R. Manz Elementary  
Gordon O. Wollum, principal  
1000 East Fillmore Ave.  
Eau Claire, Wis. 54701

Mt. Washington School  
Joe C. Rosenberg, principal  
1710 Menomonie St.  
Eau Claire, Wis. 54701

**EDGERTON COMMUNITY SCHOOLS**  
Kenneth F. Williams, Supt.

Yahara Valley Elementary School  
William R. Smeaton, principal  
119 North Swift St.  
Edgerton, Wis. 53534

**FOND DU LAC PUBLIC SCHOOLS**  
Jerome N. Strupp, Supt.

Rose B. Cheqwin Elementary  
Leslie J. Chaloupka, principal  
109 East Merrill Ave.  
Fond du Lac, Wis. 54935

Cleveland School  
Gerald D. McDermot, principal  
366 West Scott St.  
Fond du Lac, Wis. 54935

Sarah Faney School  
Gerald McDermot, principal  
247 Doty St.  
Fond du Lac, Wis. 54935

Roberts Elementary  
Ms. Mary Jane McDonald, principal  
270 Candy Lane  
Fond du Lac, Wis. 54935

Henry G. Rosenow School  
Paul B. Ubbesen, principal  
290 Weis Ave.  
Fond du Lac, Wis. 54935

Elizabeth Waters School  
Jerry Sullivan, principal  
495 Wabash Ave.  
Fond du Lac, Wis. 54935

**FOX POINT-BAYSIDE PUBLIC SCHOOLS**  
Dr. George J. Lovos, Supt.

Bayside Primary School  
Charles A. Averkamp, principal  
600 East Standish Place  
Milwaukee, Wis. 53217

**FRANKLIN PUBLIC SCHOOLS**  
Harry E. Guzniczak, Supt.

Robinwood School  
Robert J. Ziegler, principal  
10700 West Church St.  
Franklin, Wis. 53132

**GALE-ETTRICK PUBLIC SCHOOLS**  
Robert Howard, Supt.

Galesville Elementary School  
Marvin Baures, principal  
400 Ridge Ave.  
Galesville, Wis. 54630

**GRANTSBURG PUBLIC SCHOOLS**  
Merlin Johnson, Supt.

Grantsburg Elementary  
Byron E. Kopp, principal  
Grantsburg, Wis. 54840

**GREEN BAY PUBLIC SCHOOLS**  
Edwin B. Olds, Supt.

Henry S. Baird  
Robert Borucki, principal  
539 Laverne Drive  
Green Bay, Wis. 54301

Helen Keller Elementary  
Kenneth R. Krueger, principal  
1806 Bond St.  
Green Bay, Wis. 54303

MacArthur School  
Theodore Herzog, principal  
1331 Hobart Drive  
Green Bay, Wis. 54303



Morgan L. Martin School  
Ms. Elaine Johnson, principal  
626 Pinehurst  
Green Bay, Wis. 54303

Whitney School  
Ms. Elaine Martin, principal  
215 North Webster  
Green Bay, Wis. 54303

**GREENDALE PUBLIC SCHOOLS**  
Dr. William D. Knapp, Supt.

John Rea Ambruster Elementary School  
Jerome C. Lent, principal  
7000 Greenway  
Greendale, Wis. 53129

Canterbury Elementary  
Mrs. Carolyn A. Kruger, principal  
7000 Enfield Ave.  
Greendale, Wis. 53129

College Park Elementary School  
Robert S. Debelak, principal  
5701 West College Ave.  
Greendale, Wis. 53129

Highland View Elementary  
Mrs. Myrtle Lane, principal  
5900 South 51st St.  
Greendale, Wis. 53129

**GREENWOOD COMMUNITY SCHOOLS**  
Kenneth F. Bartels, Supt.

Greenwood Community Elementary School  
Mrs. Willetta Heidemann, principal  
708 East Division St.  
Greenwood, Wis. 54437

**HORTONVILLE PUBLIC SCHOOLS**  
Marvin Obry, Supt.

Hortonville Elementary School  
Eugene Riedl, principal  
246 North Oak St.  
Hortonville, Wis. 54944

**JANESVILLE PUBLIC SCHOOLS**  
Fred Holt, Supt.

Adams Elementary School  
Robert O. Cook, principal  
1138 East Memorial Drive  
Janesville, Wis. 53545

Grant Elementary  
Elden Iverson, principal  
1420 West Court St.  
Janesville, Wis. 53545

Happy Hollow Elementary School  
Dean E. Held, principal  
Route 3  
Janesville, Wis. 53545

Harrison "Pod" School  
George H. McKilligin, principal  
760 Princeton Road  
Janesville, Wis. 53545

Hillcrest Elementary School  
Dean E. Held, principal  
Route 4, Magnolia Road  
Janesville, Wis. 53545

Madison Elementary  
Mrs. Cynthia Keene, principal  
331 North Grant St.  
Janesville, Wis. 53545

Monroe Elementary  
Richard E. Skyles, principal  
55 South Pontiac Drive  
Janesville, Wis. 53545

Rock Elementary School  
Dean E. Held, principal  
Route 5—Cemetery Road  
Janesville, Wis. 53545

Van Buren Elementary  
Jack L. Hackett, principal  
1515 Lapham St.  
Janesville, Wis. 53545

Washington School  
Elden O. Iverson, principal  
811 North Pine Street  
Janesville, Wis. 53545

Wilson M.U.E. School  
Norm Graper, principal  
465 Rockport Road  
Janesville, Wis. 53545

**JOHNSON CREEK PUBLIC SCHOOLS**  
Fred Johnson, Supt.

Johnson Creek Community School  
Vito Racanelli, principal  
111 South St.  
Johnson Creek, Wis. 53038

**KAUKAUNA PUBLIC SCHOOLS**  
Julian Bichler, Supt.

Nicolet Elementary School  
Henry J. Drechsler, principal  
109 East 8th St.  
Kaukauna, Wis. 54130

Victor Haen Elementary School  
Bernard J. Schmitt, principal  
1130 Haen Drive  
Kaukauna, Wis. 54130

**KENOSHA UNIFIED SCHOOLS**  
Otto F. Huettner, Supt.

Bose Elementary School  
Herbert W. Upright, principal  
1900 15th St.  
Kenosha, Wis. 53140

**LA CROSSE PUBLIC SCHOOLS**  
Eugene C. Balts, Supt.

Emerson Elementary School  
Terry R. Witzke, principal  
21st and Campbell Road  
La Crosse, Wis. 54601

Hintgen Elementary School  
Elmer W. Grassman, principal  
3505 South 28th St.  
La Crosse, Wis. 54601

Jefferson Elementary  
Borghild L. Olson, principal  
St. James and Caledonia Sts.  
La Crosse, Wis. 54601

Summit Elementary  
Mrs. Rosella A. Christiano, principal  
1800 Lake Shore Drive  
La Crosse, Wis. 54601

Washburn School  
Harold Dyar, principal  
8th and Main Sts.  
La Crosse, Wis. 54601

**LITTLE CHUTE-VANDENBROEK PUBLIC SCHOOLS**  
Leo Bronkalla, Supt.

Little Chute Public Elementary  
Don Bangert, principal  
625 Grand Ave.  
Little Chute, Wis. 54140

**MADISON PUBLIC SCHOOLS**  
Douglas Ritchie, Supt.

Franklin Elementary  
Emmett Connery, principal  
305 West Lakeside St.  
Madison, Wis. 53715

Ray W. Huegel  
Jerry Johnson, principal  
2601 Prairie Road  
Madison, Wis. 53711

Randall Elementary School  
H. Ralph Allen, principal  
1802 Regent St.  
Madison, Wis. 53705

Sherman Elementary School  
Anthony A. Farina, principal  
1601 North Sherman Ave.  
Madison, Wis. 53704

**MANAWA PUBLIC SCHOOLS**  
Dr. Robert Ames, Supt.

Manawa Elementary  
Edmund Facklam, principal  
601 Depot St.  
Manawa, Wis. 54949

**MANITOWOC PUBLIC SCHOOLS**  
Charles E. Jones, Supt.

Andrew Jackson School  
Eugene Krejcarek, principal  
1201 North 18th St.  
Manitowoc, Wis. 54220

McKinley School  
Ms. Constance Foley, principal  
1010 Huron St.  
Manitowoc, Wis. 54220

C. G. Stangel School  
Robert J. Rosinsky, principal  
1002 East Cedar Ave.  
Manitowoc, Wis. 54220

**MAYVILLE PUBLIC SCHOOLS**  
Robert Oetz, Supt.

Mayville Elementary School  
V. J. Tatum, principal  
Main and Dayton Sts.  
Mayville, Wis. 53050

**McFARLAND PUBLIC SCHOOLS**  
Dr. Gordon E. Rodeen, Supt.

Elvehjem Elementary  
Donald Barnes, principal  
6009 Johnson St.  
McFarland, Wis. 53558

McFarland Elementary School  
Donald E. Barnes, principal  
6103 Johnson St.  
McFarland, Wis. 53558

**MENASHA PUBLIC SCHOOLS**  
Dr. Alan Osterndorf, Supt.

Jefferson Elementary School  
Frank R. Parsons, principal  
Second St.  
Menasha, Wis. 54952

Nicolet Elementary School  
Frank R. Parsons, principal  
Ahnaip St.  
Menasha, Wis. 54952

**MENOMONEE FALLS PUBLIC SCHOOLS**  
Dr. Jack Magnuson, Supt.

Lincoln School  
Kenneth Semmann, principal  
N88 W16913 Main St.  
Menomonee Falls, Wis. 53051

Shady Lane  
August Schreiner, principal  
W172 N8959 Shady Lane Blvd.  
Menomonee Falls, Wis. 53051

**MENOMONIE PUBLIC SCHOOLS**  
Melvin Bollom, Supt.

Downsville Elementary School  
Ms. Fern A. Martin, principal  
Downsville, Wis. 54735

North Elementary  
Stanley Huffel, principal  
North Menomonie  
Menomonie, Wis. 54751

River Heights School  
Stanley Cotts, principal  
615 24th Ave. West  
Menomonie, Wis. 54751

**MERRILL PUBLIC SCHOOLS**  
Roger Lowney, Supt.

Midway Elementary  
David Donner, principal  
Route 2  
Gleason, Wis. 54435

**PORT EDWARDS PUBLIC SCHOOLS**  
Michael Malone, Supt.

John Edwards Elementary School  
Ed Heuer, principal  
5th and Ver Bunker and 801 2nd St.  
Port Edwards, Wis. 54469

**RACINE COUNTY UNIFIED SCHOOLS**  
C. Richard Nelson, Supt.

Stephen Bull Elementary  
James R. Ferguson, principal  
815 DeKoven Ave.  
Racine, Wis. 53403

Franklin Elementary School  
John P. Blickle, principal  
1012 Center St.  
Racine, Wis. 53403

W. C. Giese  
Earl I. Nelson, principal  
5120 Byrd Ave.  
Racine, Wis. 53406

Jefferson Elementary  
David L. Sweeney, principal  
1722 West 6th St.  
Racine, Wis. 53404

Or. Beatrice O. Jones Elementary  
Paul R. Schwandt, principal  
3300 Chicory Road  
Racine, Wis. 53403

North Park  
Duane B. Barnes, principal  
4748 Elizabeth St.  
Racine, Wis. 53402

Schulte School  
Allen Onnink, principal  
8515 Westminster Drive  
Sturtevant, Wis. 53177

Winslow Elementary  
Michael A. Mucha, Jr., principal  
1325 Park Ave.  
Racine, Wis. 53403

**RHINELANDER PUBLIC SCHOOLS**  
Cedric A. Vig, Supt.

Pine Lake Elementary School  
Gene B. Belmas, principal  
Route 1  
Rhineland, Wis. 54501

**RICE LAKE PUBLIC SCHOOLS**  
Louis M. King, Supt.

Hilltop Elementary  
Miss Mary Kratochvil, principal  
204 Cameron Road  
Rice Lake, Wis. 54868

Jefferson Elementary  
Miss Vera Bailey, principal  
30 Phipps Ave.  
Rice Lake, Wis. 54868

Rice Lake Middle School  
Herbert L. Calkins, principal  
204 Cameron Road  
Rice Lake, Wis. 54868

**RIPON PUBLIC SCHOOLS**  
Charles Hub, Supt.

Ceresco School  
Quirin E. Jung, principal  
Liberty St.  
Ripon, Wis. 54971

**RIVER FALLS PUBLIC SCHOOLS**  
Vernon S. Bennett, Supt.

Greenwood Elementary School  
Homer C. Krengel, principal  
418 North Eighth St.  
River Falls, Wis. 54022

Westside Elementary School  
D. Joe Haller, principal  
1007 West Pine St.  
River Falls, Wis. 54022

**MILTON PUBLIC SCHOOLS**  
Jon C. Platts, Supt.

Harmony Elementary  
Mrs. Dorothy Reddy, principal  
Route 2  
Janesville, Wis. 53545

Janesville Consolidated School  
Ronald Socwell, principal  
Route 2  
Janesville, Wis. 53545

Milton West Elementary  
Joseph Ban, principal  
825 West Madison Ave.  
Milton Junction, Wis. 53564

**MILWAUKEE PUBLIC SCHOOLS**  
Or. Richard P. Gousha, Supt.

Benjamin Franklin School  
Ms. Madeline A. Ferschl, principal  
2308 West Nash St.  
Milwaukee, Wis. 53206

McKinley Intermediate School  
Donald C. Luebke, principal  
2014 West McKinley St.  
Milwaukee, Wis. 53205

Henry David Thoreau School  
Ms. Alice R. Weidemann, principal  
7878 North 60th St.  
Milwaukee, Wis. 53218

Victory School  
Mrs. Jane Chrisman, principal  
2222 West Henry Ave.  
Milwaukee, Wis. 53221



**NEENAH PUBLIC SCHOOLS**  
Dr. Donald Scott, Supt.

Coolidge Elementary School  
Gerald E. Gebhardt, principal  
321 Alcott Drive  
Neenah, Wis. 54956

Hoover Elementary  
Donald Feit, principal  
Hunt Ave.  
Neenah, Wis. 54956

Lakeview Elementary  
Ted L. Jarosh, principal  
1645 South Commercial St.  
Neenah, Wis. 54956

Tullar Elementary  
Lloyd H. Thede, principal  
925 Tullar Road  
Neenah, Wis. 54956

**OAK CREEK-FRANKLIN PUBLIC SCHOOLS**  
Gilbert Grosenick, Supt.

Shepard Hills Elementary School  
Larry V. Tylke, principal  
9701 South Shepard Hills Drive  
Oak Creek, Wis. 53154

**OCONOMOWOC PUBLIC SCHOOLS**  
Dr. William Paton, Supt.

Ashippun Elementary School  
David E. Engen, principal  
295A CTH "O"  
Oconomowoc, Wis. 53066

Summit School  
Linford LeMoine, principal  
36316 Valley Road  
Oconomowoc, Wis. 53066

**OREGON CONSOLIDATED SCHOOLS**  
Phillip Helgesen, Supt.

Oregon Middle School  
Edward Guzewski, principal  
300 Soden Drive  
Oregon, Wis. 53575

**PLYMOUTH PUBLIC SCHOOLS**  
Elden Amundson, Supt.

Fairview School  
Miss Marian Ubbelohde, principal  
Bruns St.  
Plymouth, Wis. 53073

Parkview Elementary School  
Thomas Snider, principal  
Parkview Drive  
Plymouth, Wis. 53073

**SEYMOUR COMMUNITY SCHOOLS**  
L. C. Martens, Supt.

Black Creek School  
Orville N. Sell, principal  
Box 237  
Black Creek, Wis. 54106

Nichols School  
Orville N. Sell, principal  
Nichols, Wis. 54152

Rock Ledge Elementary School  
Richard Wiedemann, principal  
330 West Hickory St.  
Seymour, Wis. 54165

**SPARTA AREA SCHOOLS**  
George Shiroda, Supt.

Lawrence Lawson Elementary  
James W. Liska, principal  
428 North Black River St.  
Sparta, Wis. 54656

**STEVENS POINT PUBLIC SCHOOLS**  
Robert Houg, Supt.

Jackson School  
Bob Norton, principal  
1900 West Zynda Drive  
Stevens Point, Wis. 54481

Madison Elementary School  
Sigurd Sandstrom, principal  
600 Maria Drive  
Stevens Point, Wis. 54481

McKinley Elementary School  
Eugene LaRose, principal  
2926 Blaine St.  
Stevens Point, Wis. 54481

Washington School  
Steve Bogaczyk, principal  
3500 Prais St.  
Stevens Point, Wis. 54481

**SUPERIOR PUBLIC SCHOOLS**  
Michael Verich, Supt.

Cooper Elementary  
Ray McGettigan, principal  
1807 Missouri Ave.  
Superior, Wis. 54880

**THORP PUBLIC SCHOOLS**  
Leroy Merlak, Supt.

Thorp Elementary  
Mrs. Irma Deutschlander, principal  
201 North Jackson St.  
Thorp, Wis. 54771

**TIGERTON PUBLIC SCHOOLS**  
Elmer W. Ruh, Supt.

Tigerton Grade School  
Elmer W. Ruh, principal  
Tigerton, Wis. 54486

**TOMAH PUBLIC SCHOOLS**  
James M. Kavanaugh, Supt.

Lemonweir Elementary  
Mrs. Catherine Farmer, principal  
North Glendale Ave.  
Tomah, Wis. 54660

Miller Elementary  
Mrs. Catherine Farmer, principal  
813 Oak St.  
Tomah, Wis. 54660

**WAUKESHA PUBLIC SCHOOLS**  
Dr. Kenneth H. Reinke, Supt.

Northview Elementary School  
Jim Hayes, principal  
1721 Northview Road  
Waukesha, Wis. 53186

Pleasant Hill  
Sigmund Snopek, Jr., principal  
175 South Barker Road  
Waukesha, Wis. 53186

Prairie Elementary  
James Chermak, principal  
Center Road  
Waukesha, Wis. 53186

**WAUPUN PUBLIC SCHOOLS**  
H. E. Kujath, Supt.

Fox Lake Elementary School  
R. E. Steinfeldt, principal  
200 Depot St.  
Fox Lake, Wis. 53933

Jefferson School  
Vern Wanish, principal  
Beaver Dam St.  
Waupun, Wis. 53963

Lincoln School  
Vern Wanish, principal  
West Brown St.  
Waupun, Wis. 53963

Washington Elementary School  
Jon Litscher, principal  
Young St.  
Waupun, Wis. 53963

**WEST ALLIS PUBLIC SCHOOLS**  
Marshall R. Taylor, Supt.

Pershing School  
Emil C. Krejcarek, principal  
1330 South 47th St.  
Milwaukee, Wis. 53214

**WEST BEND PUBLIC SCHOOLS**  
Dr. John D. Bowser, Supt.

Barton Elementary  
Ted Thomas, principal  
614 School Place  
West Bend, Wis. 53095

Decorah School  
Gerald R. Engstad, principal  
1225 Sylvan Way  
West Bend, Wis. 53095

Green Tree Elementary  
Melvin Riley, principal  
1330 Green Tree Road  
West Bend, Wis. 53095

Jackson School  
William E. Josten, principal  
106 Jackson Drive  
Jackson, Wis. 53037

McLane School  
John Cain, principal  
833 Chestnut St.  
West Bend, Wis. 53095

WEST DE PERE PUBLIC SCHOOLS  
Neal Richtman, Supt.

Westwood Elementary  
Raymond F. Dohl, principal  
1155 Westwood Ave.  
De Pere, Wis. 54115

WISCONSIN DELLS PUBLIC SCHOOLS  
R. W. Fenske, Supt.

Wisconsin Dells Elementary  
Alan Schultz, principal  
400 Washington Ave.  
Wisconsin Dells, Wis. 53965

WISCONSIN HEIGHTS PUBLIC SCHOOLS  
Mark Oruml, Supt.

Black Earth Elementary  
Evan Vieregge, principal  
Black Earth, Wis. 53515

Mazomanie Elementary School  
Lawrence Lampsa, principal  
314 Anne St.  
Mazomanie, Wis. 53560

**Current as of  
May 1972**

## **IGE/Multiunit Schools with Relationships with /I/D/E/A/**

### **ALABAMA**

Facilitator: Tom Taylor  
Auburn University  
3002 Haley Center  
Auburn, Ala. 36830

### **ALTOONA PUBLIC SCHOOLS**

West End Elementary  
Frank D. Heatherly, principal  
Altoona, Ala. 35952

### **ANNISTON PUBLIC SCHOOLS**

Randolph Park Elementary  
W. R. Trammel, principal  
2200 West 17th St.  
Anniston, Ala. 36201

### **AUBURN PUBLIC SCHOOLS**

Boykin Street Elementary  
Dr. Eldon Johnson, principal  
P.O. Box 1469  
Auburn, Ala. 36830

### **CULLMAN PUBLIC SCHOOLS**

West Elementary  
Raymond Clarke, principal  
303 Rosemont Ave.  
Cullman, Ala. 35055

### **DOTHAN PUBLIC SCHOOLS**

Highlands Elementary  
Guy D. Ward, principal  
West Powell St.  
Dothan, Ala. 36301

### **ECLECTIC PUBLIC SCHOOLS**

Eclectic Elementary  
Franklin Wingett, principal  
Eclectic, Ala. 36024

### **FLORENCE PUBLIC SCHOOLS**

Brandon Elementary  
Dempsey F. Rutherford, principal  
Ironside St.  
Florence, Ala. 35630

### **GRAND BAY PUBLIC SCHOOLS**

Grand Bay Elementary  
August Trovaioli, principal  
P.O. Box 286  
Grand Bay, Ala. 36541

### **HEADLAND PUBLIC SCHOOLS**

Headland Elementary  
James W. Commander, principal  
Headland, Ala. 36345

### **HUNTSVILLE PUBLIC SCHOOLS**

McDonnell Elementary  
Mrs. Elizabeth Hall, principal  
4010 Binderton Place, Southwest  
Huntsville, Ala. 35805

### **OPELIKA PUBLIC SCHOOLS**

Pepperell Elementary  
Mrs. Martha Bailey, principal  
Pepperell Parkway  
Opelika, Ala. 36801

### **PHENIX PUBLIC SCHOOLS**

Meadowlane Elementary  
Lewis E. Brummett, principal  
709 Meadowlane Drive  
Phenix City, Ala. 36867

### **SELMA PUBLIC SCHOOLS**

Cedar Park Elementary  
Miss Lorna West, principal  
Woodrow Ave.  
Selma, Ala. 36701

### **TRUSSVILLE PUBLIC SCHOOLS**

Hewitt Elementary  
Horace Gordon, principal  
113 Chalkville Road  
Trussville, Ala. 35173

### **ILLINOIS**

Facilitator: Miss Marguerite Delhotal  
Archdiocese of Chicago  
430 North Michigan Ave.  
Chicago, Ill. 60611

### **ARCHDIOCESE OF CHICAGO**

Immaculate Conception School  
Sister Joan Baldrige, principal  
1431 North North Park

Maternity BVM School  
Sister Agnes Calmeyn, principal  
1537 North Lawndale

Our Lady of Peace  
Sister Mary Elizabeth, principal  
7850 South Chappel

Our Lady of the Ridge School  
Sister Mary Phyllis, principal  
10810 South Oxford Ave.  
Chicago Ridge, Ill. 60416

Queen of All Saints School  
Sister Regina Crowley, principal  
6230 North Lemont

Queen of Angels School  
Sister Patricia Spangler, principal  
4532 North Western

St. Bonaventure School  
Sister Diann Musial, principal  
1651 West Diversey

St. Cecelia School  
Sister Nadine Hargadon, principal  
220 West 45th Place

St. Clotilde School  
Sister Mary Alice Pierce, principal  
321 East 84th St.

St. Daniel the Prophet School  
Sister Frances Catherine, principal  
5337 South Natoma

St. Dorothy School  
Sister Jeanne Granville, principal  
7740 South Eberhart Ave.

St. Joseph School  
Sister Francis Marie Harwas, principal  
1065 North Orleans

St. Philip Neri School  
Sister Nora O'Brien, principal  
2110 East 72nd St.

Providence of God School  
Sister Jeanette, principal  
712 West 19th St.

St. Procopius School  
Miss Mary Carney, principal  
1625 South Allport

St. Thomas of Canterbury School  
Sister Catherine Krippner, principal  
4809 North Kenmore

St. Kieran School  
Sister Marilyn Shea, principal  
Route 2  
Box 143A  
Chicago Heights, Ill. 60411

## IOWA

Facilitator: Jerry Mills  
Studebaker Elementary School  
300 East County Line Road  
Des Moines, Iowa 50315

## DES MOINES PUBLIC SCHOOLS

Findley Elementary School  
Miss Nadine Machesney, principal  
3000 Cambridge St.

Jackson Elementary School  
Mrs. Marion Pritchard, principal  
3825 Indianola Road

Oak Park Elementary School  
Miss Joan Sherman, principal  
3928 Sixth Ave.

Stowe Elementary School  
Keith VanHorn, principal  
1411 East 33rd St.

Studebaker Elementary School  
Jerry Mills, principal  
300 East County Line Road

NOTE: In September, 1972, these additional  
Des Moines schools will begin operating as  
IGE schools. They are:

Pleasant Hill Elementary School  
Lovejoy Elementary School  
Jefferson Elementary School  
Mann Elementary School  
Park Avenue School  
Willard Elementary School  
Brooks Elementary School  
Hanawalt Elementary School

## MINNESOTA

Facilitator: Frank Nauyokas  
Southwest Minnesota State College  
Marshall, Minn. 56258

## LAKEFIELD PUBLIC SCHOOLS

Lakefield Elementary  
Herbert Peterson, principal  
Lakefield, Minn. 56150

## ALEXANDRIA PUBLIC SCHOOLS

Washington School  
Dave Strand, principal  
Alexandria, Minn. 56308

## OHIO

Facilitators: Dave Ashby  
Director, Elementary Instruction  
& Curriculum  
Dayton Public Schools  
348 West First St.  
Dayton, Ohio 45402

Dr. James Steele  
College of Education  
Youngstown State University  
Youngstown, Ohio 44503

## DAYTON PUBLIC SCHOOLS

Cornell Heights School  
Frederick Clark, principal  
2826 Campus Drive

Edison School  
Mrs. Elizabeth Hatcher, principal  
228 North Broadway

Ft. McKinley School  
Ronald Decker, principal  
3725 Evansville Ave.

Fairport School  
Irving Moses, principal  
1952 Fairport Ave.

Franklin School  
Mrs. Bernice James, principal  
2617 East Fifth St.

Grace A. Greene School  
Harrison Dixon, principal  
503 Edison Ave.

Hawthorne School  
Robert Jones, principal  
226 McDaniel St.

Irving School  
John C. Lesko, principal  
355 Cincinnati St.

Jefferson School  
Peter Lanasa, principal  
1231 North Euclid Ave.

Jefferson School  
Mrs. Wertha Dugger, principal  
1223 North Euclid Ave.

Kemp School  
Robert Dobbins, principal  
816 Shedbourne Ave.

Longfellow School  
Gregory Caras, principal  
245 Salem Ave.

Louise Troy School  
Mrs. Viola Lloyd, principal  
1665 Richley Ave.

MacFarlane School  
George Johnson, principal  
215 South Summit St.

McNary School  
Robert Spreng, principal  
2400 Hoover Ave.

Miami Chapel School  
Mrs. Doris Brown, principal  
1630 Miami Chapel

Orville Wright School  
Donald Garretson, principal  
200 South Wright Ave.

Van Cleve School  
Oale VanTine, principal  
45 West Helena Drive

Washington School  
Raleigh Jackson, principal  
2900 East First St.

Weaver School  
Mrs. Thelma J. Brown, principal  
2000 Howell

Whittier School  
Phillip Prather, principal  
721 Miami Chapel

#### YOUNGSTOWN PUBLIC SCHOOLS

Stadium Drive School  
Al Taylor, principal  
111 Stadium Drive  
Boardman, Ohio 44512

Garfield School  
Tom Winson, principal  
121 East Delason Ave.  
Youngstown, Ohio 44507

#### TENNESSEE

Facilitator: Floyd Edwards  
East Tennessee State University  
Department of Education  
Johnson City, Tenn. 37601

#### BRISTOL PUBLIC SCHOOLS

Holston Heights School  
Mrs. Jane Whitlow, principal  
100 Cannon St.  
Bristol, Tenn. 37620

Rosemont Elementary School  
Wm. J. Morrell, Jr., principal  
2031 Broad St.  
Bristol, Tenn. 37620

#### ELIZABETHTON PUBLIC SCHOOLS

Keenburg Elementary School  
Thurman J. Elliot, principal  
Route 3  
Elizabethton, Tenn. 37643

Midway Elementary School  
Daniel Holder, principal  
Route 5  
Elizabethton, Tenn. 37643

West Side Elementary School  
Will H. Andrews, principal  
Burgie St.  
Elizabethton, Tenn. 37643

#### JONESBORO PUBLIC SCHOOLS

Boone Creek Elementary  
John Manning, principal  
Route 4  
Jonesboro, Tenn. 37659

Jonesboro Elementary School  
Early Henley, principal  
Main St.  
Jonesboro, Tenn. 37659

#### JOHNSON CITY PUBLIC SCHOOLS

Central Elementary School  
Mrs. Mary Phipps, principal  
Route 5  
Johnson City, Tenn. 37601

King Springs Elementary School  
Frank Wright, principal  
Route 6  
Johnson City, Tenn. 37601

South Side Elementary School  
Ms. Selma Maltzberger, principal  
Southwest Ave.  
Johnson City, Tenn. 37601

#### KINGSPORT PUBLIC SCHOOLS

Andrew Johnson School  
Thomas R. Milam, principal  
Ormond Drive  
Kingsport, Tenn. 37664

James Madison Elementary School  
Mrs. Reba Robinette, principal  
200 Greenway St.  
Kingsport, Tenn. 37660

#### VIRGINIA

Facilitator: Floyd Edwards  
Department of Education  
East Tennessee State University  
Johnson City, Tenn. 37601

#### BRISTOL PUBLIC SCHOOLS

Douglass Elementary School  
H. K. Breedlove, principal  
Moore St.  
Bristol, Va. 24201

Thomas Jefferson School  
Gene Eller, Jr., principal  
501 Mary St.  
Bristol, Va. 24201

#### WASHINGTON

Facilitator: Dave Zeigler  
Bureau of School Service and Research  
University of Washington  
Seattle, Wash. 98105

#### ABERDEEN PUBLIC SCHOOLS

Young Elementary School  
Bob Anderson, principal  
1700 Cherry  
Aberdeen, Wash. 98520

#### EVERETT PUBLIC SCHOOLS

Eisenhower Middle School  
Jim Hopkins, principal  
2500 100th Ave., S.E.  
Everett, Wash. 98201

Jefferson Elementary School  
Edward Morrow, principal  
2500 Cadet Way  
Everett, Wash. 98201

Olivia Park Elementary School  
Loren Jackson, principal  
200 108th S.W.  
Everett, Wash. 98201

Silver Lake Elementary School  
Dick Patterson, principal  
12815 Bothell Way  
Everett, Wash. 98201

#### FEDERAL WAY PUBLIC SCHOOLS

Lake Grove Elementary School  
Paul Doneen, principal  
303 S. W. 308th St.  
Federal Way, Wash. 98002

#### ISSAQUAH PUBLIC SCHOOLS

Apollo Elementary School  
Larry Griffith, principal  
Box L  
Issaquah, Wash. 98207

#### MARYSVILLE PUBLIC SCHOOLS

Liberty Elementary School  
Marv Adams, principal  
1000 Liberty St.  
Marysville, Wash. 98270

#### MERCER ISLAND PUBLIC SCHOOLS

Mercer Crest Elementary School  
Ned Face, principal  
4136 85th Southeast  
Mercer Island, Wash. 98040

#### SEATTLE PUBLIC SCHOOLS

Laurelhurst Elementary School  
Duane Squires, principal  
4530 46th Ave., N.E.  
Seattle, Wash. 98105

Valley View Elementary School  
Mrs. Kathy White, principal  
17640 46th Ave. South  
Seattle, Wash. 98188

#### TACOMA PUBLIC SCHOOLS

Brookdale Elementary School  
Wes Anderson, principal  
611 South 132nd St.  
Tacoma, Wash. 98444

Christensen Elementary School  
Curt Swanson, principal  
10232 Barnes Lane  
Tacoma, Wash. 98444

Sales Elementary School  
Lyle Catt, principal  
112th and Sheridan Ave.  
Tacoma, Wash. 98444

## Special Reports by the Editors of Education U.S.A.

- Dropouts: Prevention and Rehabilitation—Schools Rescue Potential Failures.* Focuses on programs which appear to be yielding results and which can be adapted to other schools. 1972, 56 pp., #411-12826. \$4.
- Performance Contracting in Schools: Profit Motive Tested As Incentive to Learning.* Different types of contracts; testing; Texarkana project; Banneker Elementary School project; new terminology; opinion of public, parents, students, boards. 1972, 64 pp., #411-12824. \$4.
- Schoolgirl Pregnancy: Old Problem; New Solutions.* Court decisions; rulings by state education departments; refutations of old arguments; pros and cons of regular vs. special classes; sample school policies. 1972, 64 pp., #411-12822. \$4.
- Student Rights and Responsibilities: Courts Force Schools To Change.* What rights students have under the Constitution; recent court decisions; how schools also stress student responsibilities; sample local policies. 1972, 64 pp., #411-12814. \$4.
- PPBS and the School: New System Promotes Efficiency, Accountability.* Pros and cons of PPBS, a management tool to plan and manage a school district's activities and resources. Specific examples. 1972, 56 pp., #411-12810. \$4.
- Paraprofessionals in Schools: How New Careerists Bolster Education.* How paraprofessionals are helping to increase student achievement and free teachers to teach; what they do on the job; how to recruit, train, supervise them. 1972, 64 pp., #411-12804. \$4.
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