

# Optics-Ed Fall 2002 Meeting

An examination of grass-roots needs  
and entities to leverage for maximum  
return on effort and longevity.

December 19<sup>th</sup>, 2002 - 7PM  
Oak Grove High School, Room S4  
285 Blossom Hill Road, San Jose

bob.dahlgren@ieee.org

OpticsEd5.ppt

## Agenda

- Welcome & Introductions
- Administrative Matters
- Formation of Organization
- 2003 Officer Election
- Old Business
- New Business
- Adjourn

## Welcome

- Thank you for coming to the meeting!
- Please introduce yourself and sign in.
- Your participation and feedback are highly valued – don't be shy.
- Be courteous, please silence cell phones.
- Participatory process – no one dominates.
- Parliamentary procedure based on “Robert's Rules of Order”

## Administrative Matters

- Chairman's report
- Treasurer's report
- Web/email report
- Other liaison reports
- Operating rules
- Motion to adopt agenda
- Motion to adopt last meeting minutes

## Chairman's Report

### Who We Are

- Technical societies and associations
- K-12 science teachers
- 3<sup>rd</sup>-party facilitators
- Manufacturers of kits and materials
- Grass-roots science workshops
- University and government programs
- Local Corporations
- Science museums

## East S.J. schools need resources to develop science fair projects



**N**O MONEY for paper towels. That's what I kept thinking about in Halli Black and I learned the science classrooms at Piedmont Hills High School. Laboratories need paper towels. But there was no money in the budget.

"The students bring paper towels from home," Black said. She pointed to a cabinet. It had several rolls of paper towels stacked like precut pizzas.

She is the first and only "science fair

coordinator" for the East Side Union High School District. Her job is to get all 10 East Side high schools into Silicon Valley's biggest and better science competition next year. Only one East Side school has participated regularly.

A recently published survey found that the number of American college graduates taking science and technology degrees is dropping. This is not news to Piedmont Hills. It already

Joe RODRIGUEZ, Page 4E

## Source for new scientists needs money for paper towels

By Joe RODRIGUEZ

From Page 1E

has trouble filling high-tech jobs, and you can import only so many foreign engineers.

Black can explain the declining interest, but we do know where to find a good, unaged pool of potential scientists and technologists — the East Side high schools. Here are Silicon Valley's emerging and optimistic teenagers, the kids from working-class and middle-class families who want them to become professional somebody. So do principals, the school board and valley CDE organizations.

They probably see high-tech education for the mostly wealthy government and industry," Black said. "But nobody's giving them the tools they need."

The best way to learn science is by pursuing individual projects, by experimenting, by trial and error. Regular classrooms aren't set up for projects. Science fairs and competitions are ideal for the former and the latter.

Black and I walked to Bob Twomey's biology class

jects. We don't have that amount of time here."

I believe him. Twelve months for classes. Each class has 150 students. Let's do the math. That's 18,000 projects after every test or quiz.

At least one CDE sees the same science talent on the East Side and how to begin tapping it. East de Genes of Synopsys Inc., in Palo Alto, has committed \$3 million to expand the regional high school science fair and competition. A chunk of that money, maybe even half, will go to the underrepresented East Side students. In Berkeley, California, the same is being done by the University of California, Berkeley.

Twomey's salary while she takes a sabbatical from teaching to coordinate the East Side science projects.

To jump-start the new fair, Synopsys brought scientist and author Howard Hickham to NASA Ames Research Center on Tuesday. The son of a West Virginia coal miner, Hickham taught himself to build rockets from the 1950s to the 1970s. He was a PhD. The current model is "October Sky." He's not much older. After a career as a NASA rocket scientist, he writes books.

"When I heard about this science fair, I said, 'Yes, I'll come and speak,'" Hickham said. "I know how

important the science fair was to me."

Black brought me to East Side students to meet Hickham. You could say they're the 1990s urban version of him.

The 56-year-old Hickham said his missing town knew it was dying and wisely gave him and his classmates a good basic education. Silicon Valley isn't dying. That's one big difference. But the valley's not to local education doesn't match the need for the skills to give, especially at East Side schools.

For example, 250 students at Piedmont Hills High want to study physics next year. There are teachers and rooms for only 150. Science fair projects require research, but none of the East Side school libraries has high-caliber science books or journals.

Synopsys' \$3 million is just a start. For example, the company built on Piedmont Hills a science exhibit house is shamelessly underfunded. Anyone who has some extra cash for paper towels?

Contact Joe Rodriguez at jrod@quest.com 418/999

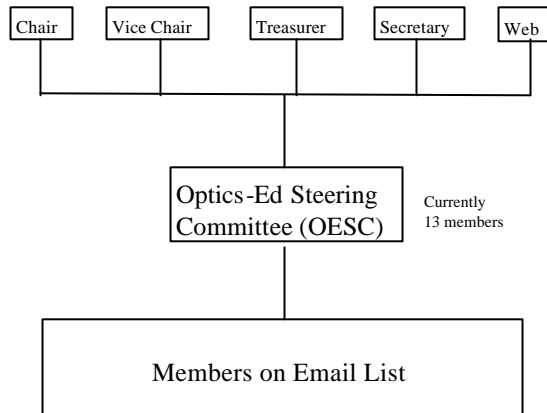
Copyright © 1993 San Jose Mercury News. All rights reserved. Reproduced with permission.



## What we are

- An informal group of people
- Operating as an *ad hoc* organization
- Operating with *ad hoc* rules
- No legal standing of our own
- Not recognizable by external entities

# Interim Structure



# OESC Make-up

OESC MEMBER	MEMBER REP	BRINGS TO TABLE
California Science Teacher's Association	Richard Filson	Promotion of Projects to STEM teachers
The Exploratorium	Paul Doherty	Review of Projects for safety, ergonomics, etc.
SJ East Side Union High School District	Heidi Black	Input from 400+ science teachers
IEEE Santa Clara Valley K12 Committee	David Fong	Assistance with funding, web site
IEEE SCV Laser & Electro-Optics Society	Bob Dahlgren	Leadership, technical review

Lawrence Livermore National Laboratory	Dick Farnsworth	Technical review, kits, training
The Optical Society of Northern California	Paul Griffiths	Leadership, technical review
IPC	Edwin El-Kareh	Vision, fundraising experience.
Resource Area for Teachers (RAFT)	Paul Grossi	Meeting/training space, circulation of kits, etc.
Schmahl Science	Belinda Schmahl	Focus groups, testing of projects
San Jose City College	Sydney Sukuta	Post-secondary perspective
San Jose State University	Dan Walker	Training space, college of ed perspective
Silicon Valley Engineering Council	Cliff Monroe	Promotion, linkages

## Mission Statement

- Help to generate the wonder and excitement of optics for students in school and beyond.

## Tagline

- Recruiting young minds to the ‘Order of Photonics Wizards’

## Operational Mission Statement

- Create a framework for interaction that leverages existing local resources in such a way to create a sustainable, low maintenance K-12 optics outreach program that is scalable, durable, flexible, and affordable.
- Explore, develop, and support members of the community that want to be part of a science outreach program.
- Coordinate with local industry and other local STEM organizations in reaching out to our educators in order to meet their needs.
- Coordinate with meta-organizations such as professional societies, foundations, and government agencies for support, content, and best practices.

## Desirable Outcomes

- Create an optics outreach program (OP) that creates excitement in Middle and High School teachers and students which leads to an increase in STEM studies.
- Encourage K-12 studies Science Technology Engineering and Mathematics (STEM).
- Attract historically under-represented groups to STEM.
- Prime the education pipeline for post-secondary schools.
- Build connections & linkages between local OP entities, creating a framework for interaction.
  - Teachers, students, parents, and other users of content
  - Prof. societies, volunteers, content, and other resources
  - Foundations, programs, distributors, and facilitators
- Organize competitions, optics activities, science fair prizes.

## Progress Since Last Meeting

- Optics-Ed Steering Committee formed.
- Identified local players with resources for distribution, focus groups, evaluation, and promotion – who joined OESC.
- Interim officers and philosophy adopted.
- Adopted draft mission statement.
- OESC email reflector established.
- Updated the Web site.
- Funding for kits never materialized from industry.
- Still looking for real funding.

## Progress Since Last Meeting

- 2 judges for 3/2/2002 Sciencepalooza.
- David Fong established K-12 Fund within the IEEE Foundation, which is a 501(c)3 foundation.
  - Permits tax-deductible donations
- \$520 donated to K-12 Fund, earmarked for Project #2002-1 – Radio Shack Account.
- Radio Shack account established and endowed.
- Flow chart and forms created, for teachers to apply for Radio Shack “NanoGrant” maximum \$10.00
- Officers have discussed membership, bylaws and structure with LEOS, OSA and CPO executives.



## Treasurer's Report

## Treasurer's Report

- David Fong (acting)
- Inflows
  - Donation \$100 from LEOS 2/26/02
  - Donation \$100 from SVP 2/26/02
  - Donation \$20 from David Fong 3/17/02
  - Donation \$200 from IEEE Santa Clara Valley 12/6/02
  - Donation \$100 from LEOS 11/26/02
- Outflows
  - Disbursed \$220 to Radio Shack account 5/13/02
  - Disbursed \$200 to Radio Shack account 12/6/02

## Web/Email List Report

### Email List

- IEEE majordomo account.
- Currently 96 members
- Edwin El-Kareh currently maintains list.
- Purpose of list is to permit dissemination of Optics-Ed announcements, and to facilitate dialog.
- Subject to IEEE “Acceptable Use Practices”

❖ [optics-ed@ieee.org](mailto:optics-ed@ieee.org)

## To Join Email List

- Send an email to  
`majordomo@majordomo.ieee.org`
- With  
`subscribe optics-ed`  
`end`  
or  
`subscribe optics-ed your@addr.com`  
`end`  
in the body of the message

## Web Site

- Piggybacking off of local IEEE hosting.
  - Bob Dahlgren set up html-based page and is acting webmaster.
  - Purpose of site is to catalog Optics-Ed info, and serve as pointers to key web sites.
- ❖ [www.ewh.ieee.org/r6/scv/k-12/optics.html](http://www.ewh.ieee.org/r6/scv/k-12/optics.html)

## WELCOME TO THE SILICON VALLEY OPTICS EDUCATION WEB SITE



*courtesy*

The Santa Clara Valley Chapter of the  
IEEE Lasers & Electro-Optics Society ([LEOS](#))



*and*

The Optical Society of Northern California ([OSNC](#))

This web site is to facilitate the dissemination of optics and photonics information; for teachers, volunteers, donors, science museums, science education facilitators, and policy makers.

[Optics-Ed Steering Committee](#)

[5/7/2000 Presentation](#)

[2/21/2002 Presentation](#)

[3/26/2002 Presentation](#)

[Optics Education Reflector](#)

---

[Teacher's Workshop at Photonics West](#)

[sci\\_inspire ALL Reflector](#)

[IEEE K-12 Website](#)

[IEEE Precollege Education](#)

[Optics Education Resources](#)

[OSA Optics for Kids](#)

Please send feedback, suggested resources, notices, and information to:

[SUBMIT AN ADDITION](#)

Tax-deductable donations, such as cash, equipment, stock can be sent to:

[SUBMIT A DONATION](#)

## OPTICS ED STEERING COMMITTEE

Below are the members of the Optics-Ed Steering Committee and their representatives:

<a href="#">California Science Teacher's Association</a>	Richard Filson
<a href="#">The Exploratorium</a>	Paul Doherty
<a href="#">San Jose East Side High School District</a>	Heidi Black
<a href="#">The IEEE Santa Clara Valley IEEE K-12 Education Committee</a>	David Fong
<a href="#">Santa Clara Valley chapter of IEEE/LEOS</a>	Bob Dahlgren
<a href="#">Lawrence Livermore National Laboratory</a>	Dick Farnsworth
<a href="#">The Optical Society of Northern California</a>	Paul OnDills
<a href="#">The Perham Foundation</a>	Hidwan El-Karsh
<a href="#">Resource Area for Teachers</a>	Paul Grosse
<a href="#">Schmahl Science</a>	Helinda Schmahl
<a href="#">San Jose City College</a>	Sydney Sokata
<a href="#">San Jose State University</a>	Dan Walker
<a href="#">Silicon Valley Engineering Council</a>	Chiff Monroe

To send an email to the committee [Click Here](#).

## OLD BUSINESS

(Organization)

## Motions

- No bylaws or structure are in place
- Operating under interim rules
- Motions numbered e.g. 2002A
  - Formation
  - Agenda
  - Minutes
  - Web Site

## Interim Voting Rules

- Parliamentary procedure based upon “Robert’s Rules of Order”
- Optics-Ed steering committee (OESC) members have voting rights.
- Non-OESC members contribute to discussion and participate in straw polls.
- Absent OESC members may provide absentee ballot(s) or a proxy statement to the secretary prior to the meeting.
- Simple majority of eligible voters to pass motion.

## Motion 2002A

- Motion to form Optics-Ed.

(simple motion)

Moved: Dahlgren

Seconded: Griffiths

For 5 Against 0 Abstain 0

Pass X Fail    

## Motion 2002B

- Motion to adopt agenda issued on 12/19/2002.

(see full text)

Moved: Dahlgren

Seconded: Griffiths

For 5 Against 0 Abstain 0

Pass X Fail

## Motion 2002C

- Motion to approve February meeting minutes issued on 12/17/2002

(see full text)

Moved: Dahlgren

Seconded: Griffiths

For 5 Against 0 Abstain 0 Pass X Fail    

## Motion 2002D

- Motion to adopt email lists and content on WWW site
- Comment: Repair broken links
- Friendly Amendment: the URL is [www.ewh.ieee.org/r6/scv/k-12/optics.html](http://www.ewh.ieee.org/r6/scv/k-12/optics.html)

Moved: El-Kareh

Seconded: Dahlgren

For 5 Against 0 Abstain 0 Pass X Fail

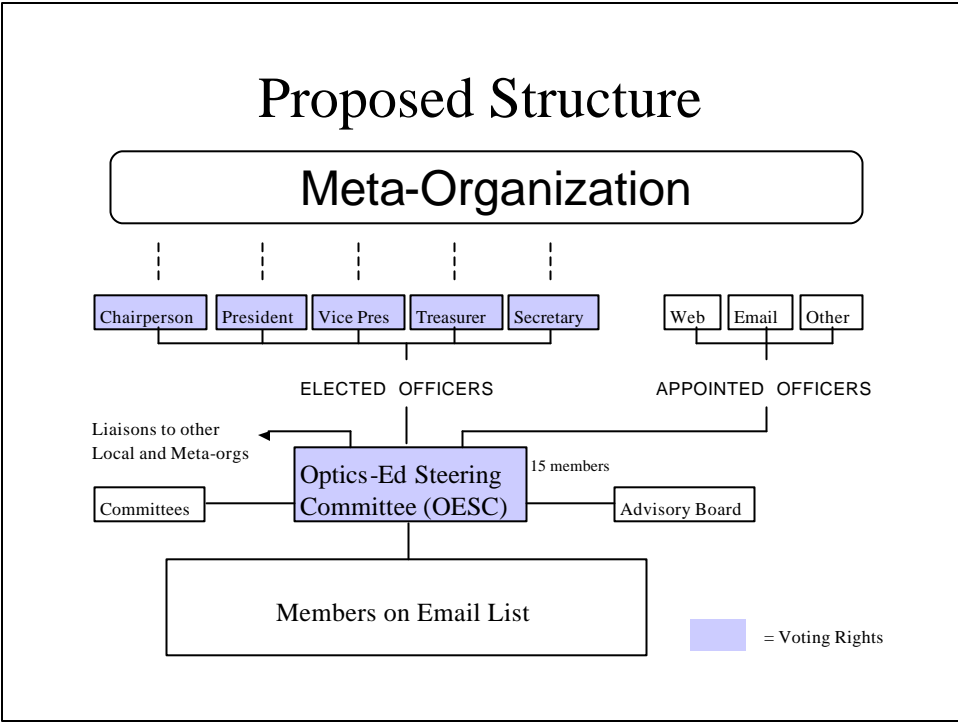


## Old Business

- Motions to establish Optics-Ed and OESC
- If bylaws are not ready:
  - Motions to establish/instruct bylaws committee
  - Election of 2003 interim officers
- If bylaws are ready:
  - OESC votes on bylaws
  - If approved, elect officers
- Call for additional OESC members

## Need for bylaws

- Provides organizational structure
- Defines membership
- Defines steering committee, officers, terms
- Defines who can vote
- Provides operating guidelines
- Provides legitimacy and protection
- Enables future growth



## Proposed Membership Definition

- Open membership
- “Involvement” in science education
- Requirement of a valid email address
- Agrees to IEEE “acceptable use” policy
- No attendance requirement
- No dues
- Members cannot vote on motions
- Members may participate in straw polls, etc.
- Membership may be revoked by OESC or officer

## Proposed OESC Definition

- Fifteen members (currently 13)
- Led by a Chairperson
- Members nominated by a current OESC member
- Requirement to be “active” in the group
- “Grandfather” in current members - staggered
  - 1/3 for 1 year initial term, starting in 2003
  - 1/3 for 2 year initial term, starting in 2003
  - 1/3 for 3 year initial term, starting in 2003
- After that, 3-year terms for OESC members

## Responsibilities of OESC

- Runs the organization
- Controls the money
- Listen to membership
- Vote on motions
- Vote on elected officers
- Assign appointed officers
- Form an advisory board
- Form committees

## OESC Organization Diversity

- Nominees for the OESC must declare whom they represent, along with any conflicts and affiliations with current OESC members.
- No more than four (4) OESC members shall represent the same entity, company, or wholly-owned subsidiary.
- Nominees not accepted unless 5<sup>th</sup> person agrees to resign at the end of their term.
- In case of acquisition, 5<sup>th</sup> person abstains.
- Officers and OESC members can be removed.

## Responsibilities of Officers

- Elected officers are subset of the OESC.
- It is preferable that elected officers are also members of a meta-organization.
- Responsible for oversight of the OESC.
- Ensures IRS rules are adhered to.
- Ensures Cal rules are adhered to.
- Ensures meta-organization's rules are adhered to.
- Elected officers vs. appointed officers

## Other Issues

- Definition of quorum?
- Currently 2 annual meetings
  - Fixed dates in February and August.
- How to submit and vote on motions?
- Non-voting advisory board for luminaries.
- How to dovetail into a meta-organization?

## Meta-Organizations


(Web Page Snapshots)


[IEEE HOME](#) | [SEARCH IEEE](#) | [SHOP](#) | [WEB ACCOUNT](#) | [CONTACT IEEE](#)  
[Membership](#) | [Publications](#) | [Services](#) | [Standards](#) | [Conferences](#) | [Careers/Jobs](#)

[About Us](#) | [Education](#)  
[Accreditation](#)  
[Awards](#)  
[Educational Activities](#)  
[Board of ADs](#)  
[E.A. Schedule of Meetings](#)  
[Conferences](#)  
[Career Resources](#)  
[CEUs](#)  
[Continuing Education](#)  
[EAGs](#)  
[News/Notes](#)  
[E-Newsletters](#)  
[Education Directory](#)  
[Education Home Page](#)

**Pre-College Education**  
**Engineer-Educator Alliance**


[Pre-College Educator Award](#)  
[Teacher-In-Service Programs Training](#)  
[City Technology: Stuff that Works Now Online](#)  
[PEERS \(Pre-College Educator/Engineer Resource Site\)](#)  
[IEEE Virtual Museum](#)  
[IEEE Presidents' Scholarship](#)  
[FIRST](#)  
[IEEE Faraday Lectures](#)  
[Electrical Engineering Careers Site](#)




[About IEEE](#) | [IEEE Member Value](#) | [Publications Services](#) | [Conferences](#) | [IEEE Organization](#)  
[Search](#) | [Join](#) | [Newsroom](#) | [Shop](#) | [Site Map](#) | [IEEE 802](#) | [Home](#)

[Purpose](#)  
[K-12 Education Current and Past News](#)  
[K-12 Education Contests](#)  
[K-12 Volunteer Opportunities](#)  
[K-12 Volunteer Resources](#)  
[K-12 Website Links](#)  
[K-12 Optics Education](#)  
[Frequently Asked Questions](#)  
[Funding](#)

**IEEE Santa Clara Valley K-12 Education**  
**News, Contests and Volunteer Opportunities**



**Latest Headline News**  
**Mentoring - Milpitas HS Engineering Academy**  
**1st Orientation Meeting : Nov.14 Thursday 4-5pm**  
 Milpitas High School (room 11-7)  
 1285 Escuela Parkway  
 Milpitas, CA 95035  
 408-942-2781 (Lannie Belanger)  
[Click for more details](#)

- [HOME](#)
- [MY LEOS](#)
- [NEWS](#)
- [FINANCIAL](#)
- [WEATHER](#)
- [TECHNOLOGY](#)
- [SEARCH](#)
- [CALENDAR](#)
- [OPEN FORUM](#)

## Lasers and Electro-Optics Research Opportunities for Primary and Secondary School Teachers

**Introduction:**

This program is a new LEOS activity that will support active participation by primary and secondary school teachers of science and mathematics in research and education projects in any of the fields involving lasers and electro-optics. The intent of this initiative is to facilitate professional development of primary and secondary school teachers through strengthened partnerships between institutions of higher education, local school districts, and LEOS.

**What is the format of the proposal?**

A three-page proposal for funding must be submitted by the host faculty member. The description of the activity (one-page) should clearly articulate in detail the form and nature of the prospective teacher's involvement in the host's ongoing or proposed research. For example, the teacher may participate in the design of new experiments, modeling and analysis of experimental data, algorithm and software development, and other activities that will result in intellectual contributions to the project. Since it is expected that this program will also lead to transfer of new knowledge to classroom activities, the description should also indicate what sustained follow-up could be projected in light of translating the teacher's research experience into classroom practice. A one-page biographical sketch of the teacher and a one-page budget should also be included.

**Funding level and duration of the program:**

The duration of the program will be one year and the project may be carried out during summer months, during the academic year, or both. The total benefit of the program is limited to \$10,000 per proposal and will be adjusted to account for the World Bank category of the country in which the work will be carried out. The budget includes:

- a. Teacher's stipend (limited to the equivalent of two months of the teacher's salary), up to \$7200
- b. Materials, equipment, supplies, software, \$1000
- c. Administrative allowance (limited to 25 % of (a)), up to \$1800

**Program content:**

The participants in the program will be expected to provide a brief final report upon completion of the work. In addition, copies of classroom materials, such as lesson plans, demonstration outlines and patch kits, PowerPoint presentations, etc., would be made available to LEOS for distribution to other primary and secondary school teachers around the world.

Search For:

Search The Web  
 Search LEOS

Related Sites

 [Join LEOS](#)

- [Membership Exhibits](#)
- [Publications](#)
- [Membership](#)
- [Optical Societies](#)
- [Student Services](#)
- [Women in Optics](#)
- [Local Sections](#)
- Education**
  - [Classifications](#)
  - [Classifications](#)
  - [Challenges](#)
  - [Professional Development](#)
- [Career Services](#)
- [Society](#)
- [Photo Store](#)
- [About OSA](#)

### Education Outreach

Optical Outreach is one of the most important and significant ways OSA supports local communities and inspires tomorrow's young scientists. For more information about how you can participate in these efforts, please contact: [OpticalOutreach@osa.org](mailto:OpticalOutreach@osa.org)

OEA supports many education activities, including:

- [OPIC For Kids.org](#)
- [OpticsEducation.org](#)
- [K-12 Initiatives](#)
- [National Science Foundation](#)
- [Educational Materials](#)
- [Education Events](#)
- [Professional Development](#)

Jump To:

Site Search:

[Site Help](#)

**SPIE Web**  
The website for optics, photonics, and imaging

Home | Contact | Product Support | Site Map | About SPIE

STUDENTS & EDUCATORS  
OPTICS COMMUNITY SERVICES

Home & Support | Optics Education | Optics Education | Optics Education | Optics Education

Home & Support | Optics Education | Optics Education | Optics Education | Optics Education

**Students & Educators**  
OPTICS COMMUNITY SERVICES

SPIE has a community commitment to foster the (existing, but) of optics education to our best and brightest of all ages. These links to materials, kits, workshops, and other resources are provided to assist you in expanding your awareness and opportunities. For more information, please contact the Education Services Department at SPIE (360-415-2900) or email [education@spie.org](mailto:education@spie.org).

**Connect with new talent: Reach the best and brightest at SPIE's conferences.**

SPIE offers your company to explore a market frontier:

- [Photonics West 2012](#)
- [Photonics Europe 2012](#)
- [Photonics Asia 2012](#)
- [SPIE Photonics Europe 2012](#)
- [Photonics West 2012](#)
- [Photonics Asia 2012](#)
- [SPIE Photonics Europe 2012](#)

Information on [Photonics & Optics Education](#)

**SPIE/OEA optics education blog/portal workshops complete**

SPIE and OEA completed their workshop series to develop an optics education program for the 23rd century. The final workshop, held at Houston in November 2011, at OEA headquarters, attracted 24 participants from a diverse community of formal and informal engineering and science educators, education policy and industry and engineering organizations.

SPIE received funding from the National Science Foundation for a planning grant to support a series of workshops addressing informal science education in optics. The planning grant of \$40,715 supported a series of

**Resources & Downloads**

- [Students & Educators Home](#)
- [Information & Links](#)
- [International Directory of Degree Programs](#)
- [SPIE Website](#)
- [Announcements & News](#)
- [Contact Us](#)

**Publications**

- [SPIE Student Chapter](#)
- [Education](#)
- [Career Services](#)
- [SPIE Student Handbook](#)

**Publications**

[SPIE Photonics Europe](#)

[SPIE Photonics West](#)

[SPIE Photonics Asia](#)

[SPIE JOURNALS](#)

[SPIE WORKS](#)

DIRECTORY

**OPTICS  
EDUCATION**

INTERNATIONAL DIRECTORY OF  
DEGREE PROGRAMS IN OPTICS

- SEARCH
- ADD/EDIT A SCHOOL
- ABOUT US
- SUPPORTERS
- HELP

Built by [OSA](#) [SPIE](#) The International Society for Optics and Photonics





[Home](#) | [About CPO](#) | [Activities](#) | [Resources](#)

### **The Coalition for Photonics and Optics**

The Coalition for Photonics and Optics is a cooperative activity among societies and associations of the international photonics and optics community. It is designed to unite the community by providing a forum for discussion on common interests. The CPO also provides a mechanism for coordinated community action on matters that will further the common interests of the community.

The Mission of the CPO is:

**"To further the scientific, technical and educational interests of the optics and photonics community."**

The CPO has eleven member organizations, representing a total of 30,500 optical scientists, engineers, and technicians and 513 U.S. optoelectronics companies.

[Home](#) | [About CPO](#) | [Activities](#) | [Resources](#)

## What Meta-Organizations Can Do

- Provides legitimacy, structure, bylaws template, etc.
- Provide liability protection for officers and OESC.
- Provide staff support to supplement volunteers.
- Provide web site, 501(c)3, mail drop, email reflector.
- Create master lists for nationwide resources.
- Generate/improve high-quality content for teachers.
- Share best practices from other OPs.
- Coordinate our OP with other OPs.
- Career push to parents and councilors.
- Get CEOs to push volunteerism.

## Motion 2002E

- Motion to form organizing committee, chaired by Edwin El-Kareh.
- Prepare resolution of formation and bylaws.
- Drafts by 2/1/03, for voting at next meeting.
- Bylaws consistent with previous slides and other input from members to the degree possible, and TBD meta-organization.

Moved: Dahlgren

Seconded: Black

For 5 Against 0 Abstain 0 Pass X Fail    

## 2003 Officer Elections

## Current Officer List

- Chairperson – Robert Dahlgren
- Vice-Chairperson – Paul Griffiths
- Treasurer - OPEN
- Secretary – Paul Grossi
- List Owner – Edwin El-Kareh
- Webmaster – OPEN
- Promotion – OPEN
- Membership – OPEN
- Resources – OPEN
- Fundraising – OPEN

## Motion 2002F

- Motion to require only Chair, Vice-Chair, Treasurer, and Secretary be *elected officers*.
  - Webmaster, Email list manager, Promotion, Membership, Resources, and Fundraising positions would become *appointed officer* positions.
  - The OESC can now accept volunteers from the general membership and appoint them to officer positions.
  - The OESC create or delete committees, working groups, and appointed officer positions.

Moved: Dahlgren

Seconded: Sukuta

For 5 Against 0 Abstain 0 Pass X Fail

## 2003 OESC Officer Slate

- Nominated Chairperson – Paul Griffiths
- Nominated Chairperson – \_\_\_\_\_
- Nominated Vice-Chair – Edwin El-Kareh
- Nominated Vice-Chair – \_\_\_\_\_
- Nominated Treasurer – David Fong
- Nominated Treasurer – \_\_\_\_\_
- Nominated Secretary – Heidi Black
- Nominated Secretary – \_\_\_\_\_

## Officer Elections

- Nominations accepted at or prior to meeting.
- For each office
  - Nominees must be an OESC member and accept the nomination
  - Nominees may make statement
  - Nominees leave room during voting
- Voting by OESC members present
- One person one vote (no Chicago rules)
- Secretary tallies and announces result

## 2003 Elected Officer Results

- Chairperson – Paul Griffiths
- Vice-Chair – Edwin El-Kareh
- Treasurer – David Fong
- Secretary – Heidi Black

## 2003 Appointed Officer Results

(Contact Cathy Werle at SJCC about student)

- Nominated Webmaster – \_\_\_\_\_
- Nominated Email-List Manager – \_\_\_\_\_
- Nominated Promotion Manager – \_\_\_\_\_
- Nominated Membership Manager – \_\_\_\_\_
- Nominated Resources Manager – \_\_\_\_\_
- Nominated Fundraising Manager – \_\_\_\_\_

# NEW BUSINESS

(Old Projects)

## New Business

- Motion for Optics-Ed mail address
- Motions on projects #2002-1
  - Authorize and announce Science NanoGrant
- Motions on projects #2002-2
  - Close out this project
- Motions on projects #2002-3
  - Authorize resource book
- Motion to submit manuscript to ETOP'03
- Motion to endorse [www.OpticsForKids.com](http://www.OpticsForKids.com)

## Mailing Address

- IEEE has regional office in Mountain View, that collects mail for the local chapters. For example

IEEE Santa Clara Valley LEOS Chapter  
c/o IEEE-SFBAC  
540 University Avenue, #150  
Palo Alto, CA 94301

- IEEE provides this as a free service to chapters who request it

## Motion 2002G

- Motion to authorize the Chairman to contact Marilyn Turner at the IEEE SFBAC (650-327-6622), to inquire about the use of mail forwarding for Optics-Ed.

Moved: Fong

Seconded: Sukuta

For 5 Against 0 Abstain 0

Pass X Fail

## Project #2002-1 – Consumables

- Problem
  - STEM teachers often spend their own cash on consumables such as batteries.
- Solution
  - Radio Shack account, endowed with donations.
  - *Teachers may request items, \$10 maximum, until account is exhausted.*
  - Optics-Ed rep procures items and distributes.
- Needs
  - Donations to IEEE Foundation → K-12 Fund

## Motion 2002H

- Motion to authorize Project #2002-1

(see previous slide)

Moved: El-Kareh

Seconded: Sukuta

For 5 Against 0 Abstain 0

Pass X Fail



## Optics-Ed Science Nanogrant

<http://www.ewh.ieee.org/613sov/12/optics.html>

**Instructor: Fill out this portion before emailing to Optics-Ed representative. All fields are required.**

Applicant \_\_\_\_\_  
 School \_\_\_\_\_  
 Address \_\_\_\_\_  
 Phone \_\_\_\_\_  
 Email \_\_\_\_\_  
 Proposal Number \_\_\_\_\_ (claim this from Optics-Ed representative)  
 Class Year \_\_\_\_\_  
 Class title \_\_\_\_\_  
 Description of item(s) requested \_\_\_\_\_  
 Amount requested \_\_\_\_\_ estimated amount   
 Purpose \_\_\_\_\_  
 Date \_\_\_\_\_

**INSTRUCTIONS:** (1) obtain this form and proposal number from Optics-Ed representative; (2) fill out form using items from Radio Shack; (3) e-mail unsigned form to Optics-Ed representative; (4) upon approval applicant will be notified by email when items are ready for pickup; (5) sign printed form upon receipt. Maximum amount of Nanogrant is ten US dollars (\$10.00). Funds are limited. One Nanogrant per teacher. Instructions for grades 5 through 12 are eligible. A valid e-mail address is required. All decisions are final. Items must be science, technology, engineering or mathematics related. Optics related proposals are encouraged. Items must be consumable, for example: resistors, light bulbs, LEDs, wire, resistors, lenses, and other small parts. Inappropriate items would include cash, appliances, media, and office supplies.

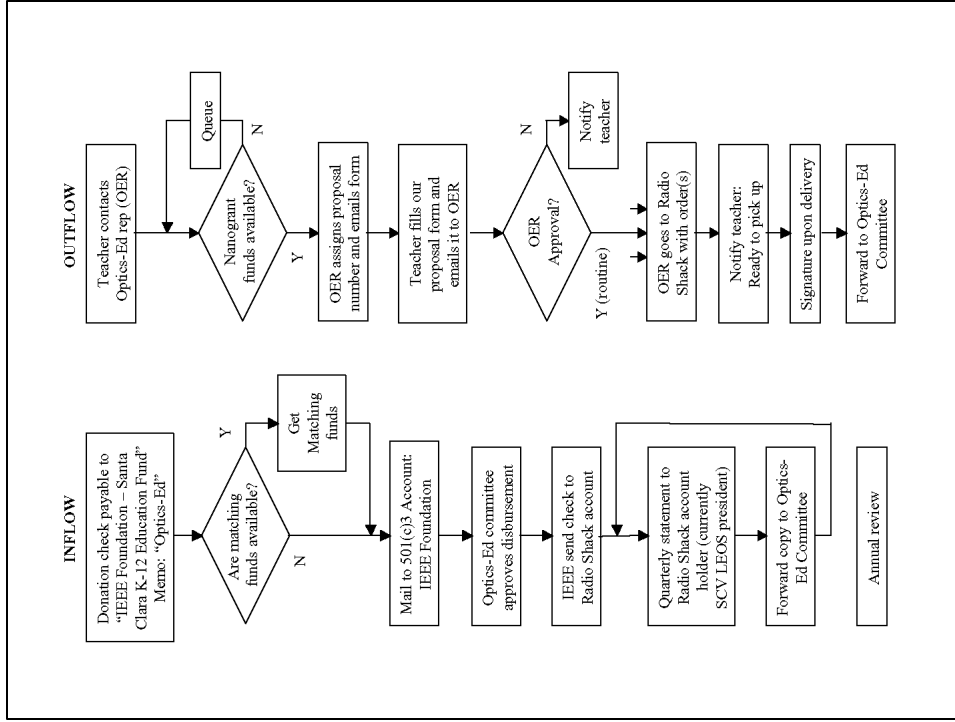
**For Optics-Ed Use Only.**

Project Number 001  
 Title Radio Shack Consumables Account  
 Grant Number \_\_\_\_\_ Grant Amount \_\_\_\_\_ Reconciled \_\_\_\_\_  
 Approved by \_\_\_\_\_ Date \_\_\_\_\_  
 Optics-Ed Committee Member Signature \_\_\_\_\_

**Do not sign below until directed to by Optics-Ed representative.**

\_\_\_\_\_  
 I certify that Nanogrant items will be used only for educational purposes, and release Optics-Ed from all liability.  
 Received by \_\_\_\_\_ Date \_\_\_\_\_  
 Teacher Signature \_\_\_\_\_

Optics-Ed representative: Heidi Strahm Black BlackH@exchange.esuhsd.org



## Motion 2002I

- Motion to approve NanoGrant form and flow chart for Project #2002-1, and authorizes Heidi Black to be the interface (“Optics-Ed representative”) to the teachers.

(see previous slides)

- Friendly Amendment: Limit to public schools, add catalog number, and questionnaire.

Moved: Fong

Seconded: Sukuta

For 5 Against 0 Abstain 0 Pass X Fail    

## Motion 2002J

- Motion to disburse \$420 from 501(c)3 fund to Radio Shack, and announcement of project #2002-1, entitled “Optics-Ed Science NanoGrant”

Moved: El-Kareh

Seconded: Fong

For 4 Against 0 Abstain 1 Pass X Fail

## Project #2002-2 – Optics Kits

- Problem
  - Schools lack science equipment for optics.
- Solution
  - Study how optics is integrated into curricula and standards, and review and approve the optics kits.
  - Procure optics kits and donate to RAFT, who *circulates kits to middle and high schools, and maintains kits.*
  - Exploratorium will review kit materials.
  - Schmahl Science volunteered to be focus group.
  - Kit manufacturer will donate training materials.
  - Volunteers secured to provide required teacher training.
  - Lesson plans on [www.OpticsForKids.com](http://www.OpticsForKids.com)
- Funding from JDSU for kits did not materialize.

## Motion 2002K

- Motion to close Project #2002-2 Optic Kits.
- Comment
  - Optics-Ed is free to re-authorize this project again when sufficient funding is received, or can be applied for.

Moved: Dahlgren

Seconded: El-Kareh

For 5 Against 0 Abstain 0

Pass X Fail

## Project #2002-3 – Resource Book

- Problem
  - STEM teachers and other consumers are often unaware of local (often free) resources.
- Solution
  - Generate resource booklet
  - Distribute to teachers
  - Mirror booklet on www
- Needs
  - Editor, chapter contributors
  - Help from National societies

## Resource Book Contents

- Master Resource List for Teachers
  - Optics kits and equipment available.
  - Class lesson plans incorporating optics.
  - WWW sites, VHS, CD-Roms for content.
  - Career info for kids and councilors.
  - Volunteers, tours, speakers, mentors, etc.
  - Awards, funds, grants, recognition.
  - Optics workshops, boot camps, fairs, etc.
  - Essential books.
  - Training for teachers.

## Resource Book Contents

- Living lists, maintained at local level
  - List of local teachers, schools, and projects, and what are their needs to encourage STEM.
  - List of local distributors, non-profits, OPs and what type of content and equipment is available.
  - List of local volunteer opportunities and companies that encourage volunteerism, tours, lectures, etc.
- Living lists, maintained at national level
  - Aggregated best practices for OPs.
  - Content for instructors, students, parents.
  - Pointers to navigate to the above local web sites.
  - Lesson plans meeting science education standards.

## Motion 2002L

- Motion to authorize Project #2002-3

(see previous slides)

- Friendly Amendment: Add disclaimer

Moved: Dahlgren

Seconded: Black

For 5 Against 0 Abstain 0

Pass X Fail

## Invited Paper

- Education Training in Optics and Photonics.
- ETOP series has been occurring since 1989.
- Tucson, Arizona, October 6-8, 2003
- Co-located this time with OSA Annual
- 10/29/2002 email from Jason Briggs (OSA) inviting us to present at ETOP'03
  - A paper on our vision and local activities
  - A paper on our perspective on how the national societies can facilitate outreach programs

[www.ETOPonline.org](http://www.ETOPonline.org)



## Motion 2002M

- Motion to form an ad-hoc committee, chaired by Sydney Sukuta, and authorize the submission of one or more presentations to ETOP'03 for consideration.
- Comment
  - Optics-Ed can't cover travel/registration costs.
  - Deadline for submission of title and abstract to the OSA will be before next OESC meeting.

Moved: El-Kareh

Seconded: Sukuta

For \_\_\_\_ Against \_\_\_\_ Abstain \_\_\_\_ Pass \_\_ Fail \_\_

## Optics For Kids Website

- OSA has created a great website.
- Lots of content for students and parents.
- Lesson plans for teachers.

www.OpticsForKids.com



## Motion 2002N

- Motion to endorse  
[www.OpticsForKids.com](http://www.OpticsForKids.com)

(see previous slides)

- Motion withdrawn for lack of a Second.

Moved \_\_\_\_\_ Seconded \_\_\_\_\_

For \_\_\_\_ Against \_\_\_\_ Abstain \_\_\_\_ Pass \_\_ Fail \_\_



## Conclusion

- Call for new projects
- Call for committee members
- Next meeting
  - Thursday, February 20<sup>TH</sup>, 2003
- Review action items
- Adjourn