

Tuesday Agenda

Introduction, AESS Vision, Structural Changes

Paul Gartz

BoG Group Exercise 1

All

AESS/IEEE Finances 101

Charley Gager

New Directions:

SoS Committee on Defense/Security

Bob Rassa

SoS Committee on Transportation

Paul Kostek

Education and Training

**Jose Bolanos/
Sai Durani**

Acquisitions

John Weyrauch

BoG Group Exercise 1

All

Responsibility of AESS BoG & Governors

***Fiduciary Responsibility,
Ethical/Legal Oversight and
Leadership of AESS Worldwide for
Success Today and the Future***

We, the governors,
need to understand our
responsibilities in each
area and implement
them

AESS Domains

Transportation

ATM

ITS

Defense/Security

C4ISR

GIG/Infospheres

Earth Observation

Global Info/Prediction

SoSs
Systems-of-Systems

Integrated
Systems

Integrated Avionics

Integrated Car Vetronics

Integrated Ship Electronics

Integrated NWS

Integrated Biomedical

Radar

Navigation

Guidance and Control

Displays

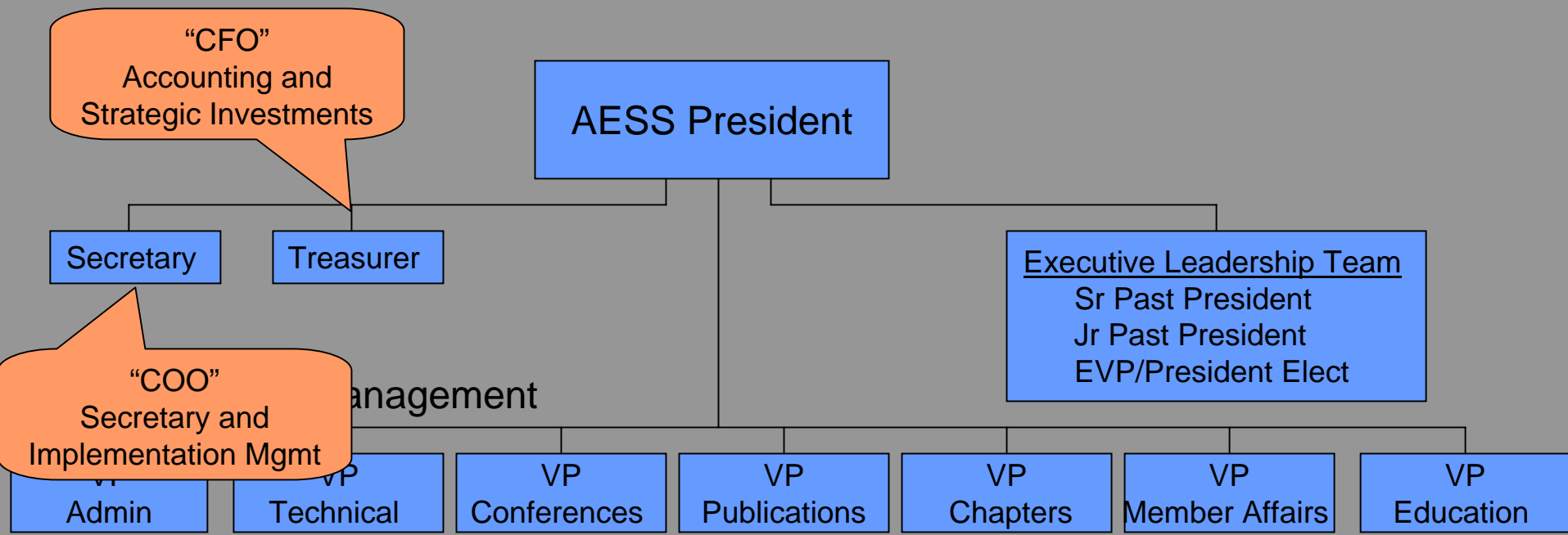
HMI

Safety/Warning SubSystems

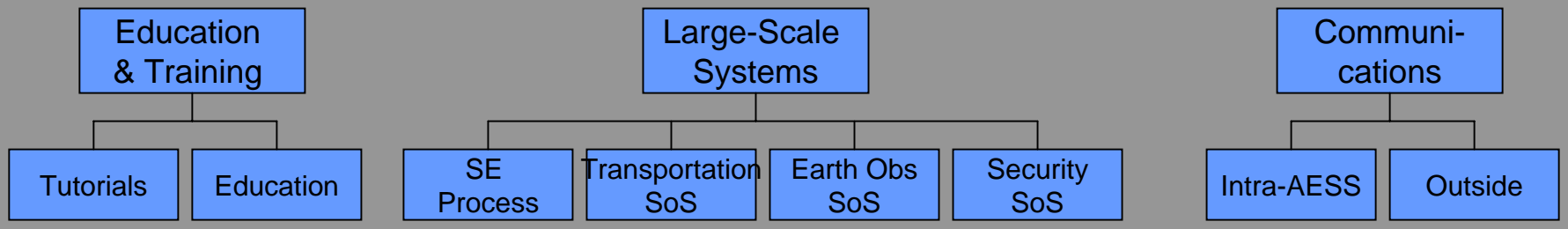
Entertainment Subsystems

Communications Subsystems

Subsystems



New Products and Services



AESS Vision

Provide worldwide leadership in advancing electronic and aerospace systems-of-systems, integrated systems and subsystems technology

President's Priorities

Daily Management

Keep running well what we do today

Growth Management

Expand based upon our competencies

Relationships

Connect People...BopG, Chapters, Members, Larger World

New BoG Meeting Format

To Accomplish New Goals

Day 1 September 21, 2004

Growth Management of AESS

Tomorrow's AESS

Strategy and Implementation

½ Day with Social Dinner

Day 2 September 22, 2004

Daily Management of AESS

Today's AESS

VP Reports, Issues & Action Items

Full Day with Breakfast and Lunch

title

title

title

title

title

Division Director Visit

to

AES-S BoG Meeting

April 29, 2004 in Monterey, CA

By: John Reagan, Div. IX Dir.

Also Member of:

IEEE Awards Board (TAB Rep.)

IEEE Meetings and Services Committee (MSC)

IEEE Conference Publications Committee (CPC)

TAB New Technology Directions Committee (NTDC)

EAB XELL Task Force

IEEE Geoscience and Remote Sensing Society

IEEE Societies/Councils *by* Division

Div I-Circuits and Devices

Circuits and Systems Society
Components, Packaging, and
Manufacturing Technology Society
Electron Devices Society
Lasers and Electro-Optics Society
Nanotechnology Council
Sensors Council
Solid-State Circuits Society

Div II-Industrial Applications

Dielectrics and Electrical Insulation Society
Industry Applications Society
Instrumentation and Measurement Society
Power Electronics Society

Div III-Communications Technology

Communications Society

Div IV-Electromagnetics and Radiation

Antennas and Propagation Society
Broadcast Technology Society
Consumer Electronics Society
Electromagnetic Compatibility Society
Magnetics Society
Microwave Theory and Techniques Society
Nuclear and Plasma Sciences Society
Superconductivity Council

Div V and Div VIII-Computer

Computer Society

Div VI-Engineering and Human Environment

Education Society
Engineering Management Society
Product Safety Engineering Society
Professional Communication Society
Reliability Society
Society on Social Implications of Technology

Div VII-Energy and Power Engineering

Power Engineering Society

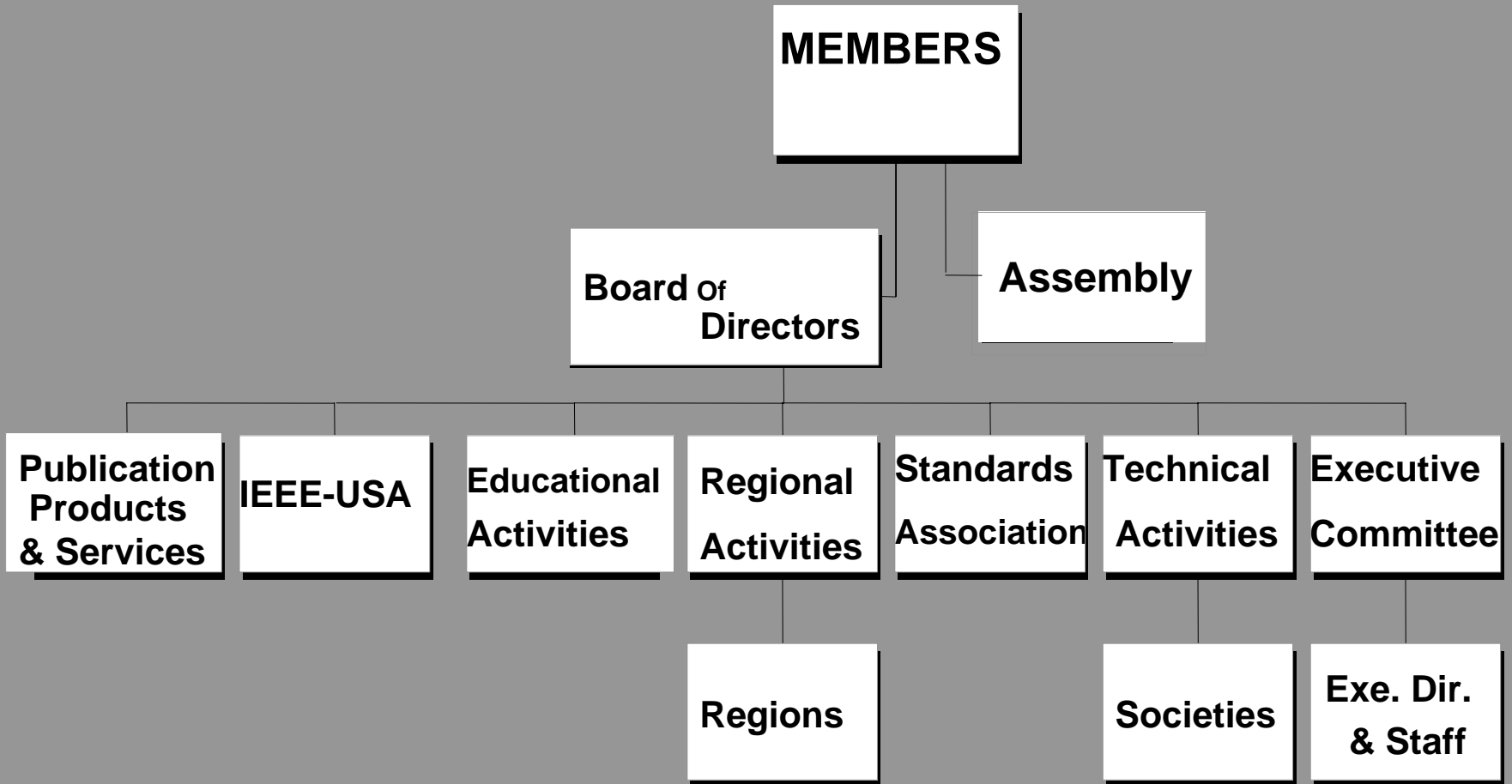
Div IX-Signals and Applications

Aerospace and Electronic Systems Society
Geoscience and Remote Sensing Society
Oceanic Engineering Society
Signal Processing Society
Ultrasonics, Ferroelectrics, and
Frequency Control Society
Vehicular Technology Society

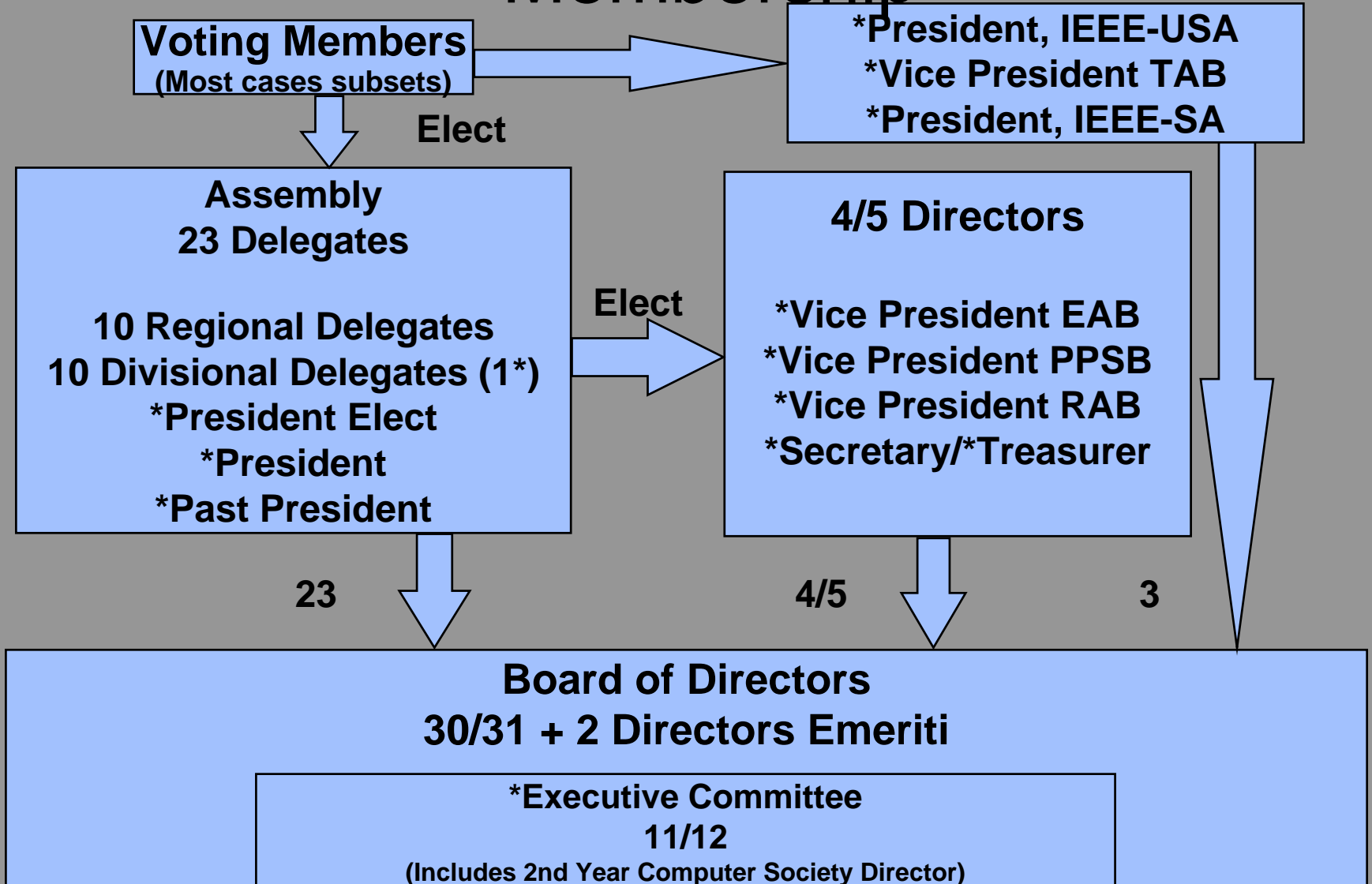
Div X-Systems and Control

Control Systems Society
Engineering in Medicine and Biology Society
Industrial Electronics Society
Information Theory Society
Intelligent Transportation Systems Council
Neural Networks Society
Robotics and Automation Society
Systems, Man, and Cybernetics Society

IEEE: Organization



IEEE BoD, Assembly, ExCom Membership



Board of Directors

Major Functions

- Establish strategic direction and policy
- Administrative / fiduciary
 - Budget
 - Audits
 - Elections
- IEEE governance
 - Appoint committees and boards
 - Approve awards
 - Elect Fellows and honorary members
 - Nominate president-elect candidates

Other Committees of BoD

- Audit
- Awards
- Credentials
- Ethics & Member Conduct
- Fellow
- Life Members
- Nominations and Appointments
- Strategic Planning
- Tellers
- Women in Engineering

Committees Administered by Major Boards

- Admission and Advancement (RAB)
- Membership Development (RAB)
- Meetings and Services (TAB)

For Possible Discussion

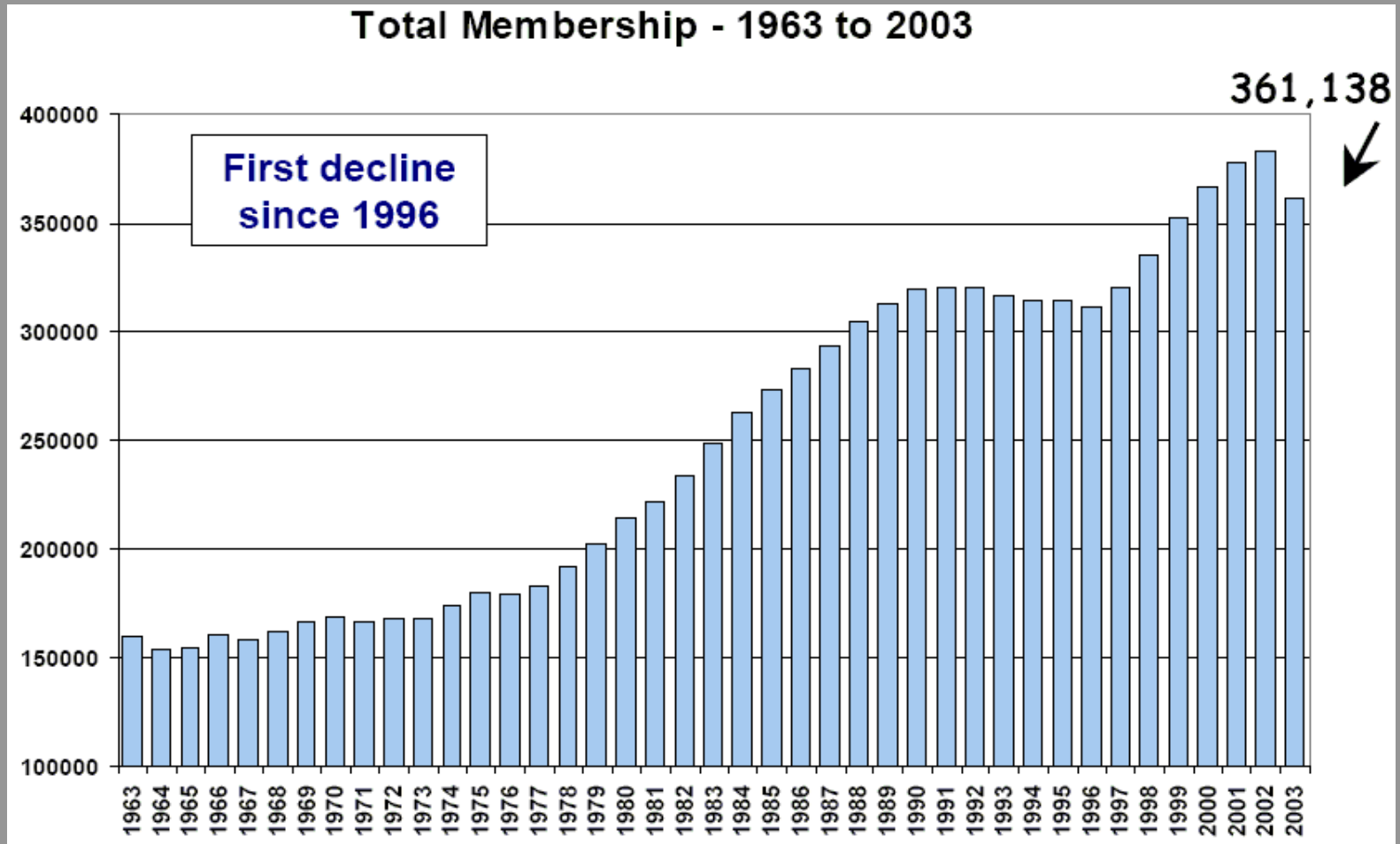
Critical Concerns/Strategic Issues/Other

- IEEE & Society Memberships
- Publications
- Conferences
- Industry Relationships/Partnerships
- Upcoming AES Society Review
- Other?

Why is membership a strategic issue?

- We have been a membership-based organization since inception
 - We do not perceive ourselves primarily as conference organizers or publishers
- We have continually measured our success by counting the number of our members
- There appears to be correlation between our membership numbers and our **influence** and **impact**, **financial health**, and **political clout**
 - Though there is no solid research to show that...
 - And these assumptions were questioned from time to time...

The membership has increased substantially since 1963



Why should we discuss membership now?

- There appear several **threats** to our membership growth
 - Changes in information technology
 - Changes in mode of delivery of new knowledge
 - The effects of electronic communications and the Internet
 - Our main product is widely available to non-members and students
 - Changes in social patterns of behavior
 - “Bowling Alone”
 - Changes in the business climate
 - Economic trends
 - The emergence of strong competitors

Why should we discuss membership now?

- We have changed **qualifications** for membership recently
 - Membership is more “open”
 - Though it is not clear we have followed up
- We have discussed changing **membership models** informally
 - But the discussion did not go beyond general description of the models
- We have struggled for many years to increase **student retention**
 - ...with little success

Student Membership - 1963 to 2003

