

2010 PSAC Business Meeting  
23 June 2010, Norfolk VA USA

1. Brendan Godfrey welcomed the approximately 30 attendees and presented the attached agenda.
2. John Luginsland briefly described the organization and functions of the Plasma Science and Applications Committee, and its Executive Committee. See the attached slides. There were few questions.
3. Steven Gold summarized the procedures for selection of IEEE Senior Members and Fellows. See the attached slides. A short discussion ensued.
  - a. Someone remarked that about 3/8 of those nominated for Fellow are selected each year.
  - b. This year, two of eight for whom PSAC endorsement were requested were selected. Often, the percentage is higher, according to John Luginsland.
  - c. A list of NPSS fellows was requested. Igor Alexeff pointed out that the sporadically published NPSS yearbook contained this information. ExCom leadership agreed to seek this information.
  - d. A few attendees remarked that the IEEE fellowship nomination web site was unreliable.
4. During the meeting wrap-up, someone suggested that future meetings be publicized at PSAC Business Meetings.



# PSAC Business Meeting

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**5:30 – 6:00 PM Wednesday**  
**Franklin/Shangri-La/Yorktown Room**

## Agenda

- Welcome Brendan Godfrey
- PSAC Activities John Luginsland
- Fellow, Senior Member Elevation Steven Gold
- Q&A, Feedback All

*Learn about Organization that Sponsors ICOPS*

*Influence Future Directions*

*Find out How the Fellow Selection Process Works*



# PSAC

(<http://ewh.ieee.org/soc/nps/tc-psac.html>)

- Plasma Science and Applications Committee is under the auspices of the IEEE's Nuclear and Plasma Sciences Society (NPSS)
  - IEEE at ~406,000 member is the largest professional society in the world and the largest not-for-profit publishers with a wide variety of technical journals, conference proceedings, and engineering standards
  - Organized along both regional and technical lines
  - NPSS has ~3600 members covering the range of nuclear and plasma sciences with medical imaging, power electronics, accelerators, pulsed power, fusion technology, and plasma physics
    - Close relationships with allied fields of pulsed power and fusion technology
- Sponsors the International Conference on Plasma Science (ICOPS)



# PSAC

(<http://ewh.ieee.org/soc/nps/tc-psac.html>)

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- Organize successful plasma meetings for vibrant technical interchange in interesting locations
  - Solicit proposals for ICOPS meetings, appoint general chairs, insure fiscally viable budgets, and provide memory of best practices
  - Provide support for conference activities: Student travel grants, membership activities, conference publishing, directory of plasma meetings
  - Maintain an active and evolving understanding of the broad field of plasma physics to develop new topics of interest to the community
    - THz Session in 2010
    - Plasma Medicine in 2011
    - Materials Interaction in 2011
- Editor-in-Chief of IEEE Transactions on Plasma Science is ex-officio member of PSAC



# PSAC Executive Committee

- Governing body of the PSAC
- Chosen by election (if interested in running, please contact [steven.gold@nrl.navy.mil](mailto:steven.gold@nrl.navy.mil) and [john.luginsland@afosr.af.mil](mailto:john.luginsland@afosr.af.mil))

PSAC ExCom Officers 2010				
Dr.	John W.	Luginsland	Chair	AFOSR
Dr.	Brendan	Godfrey	Vice-Chair	
Dr.	Steven	Gold	Secretary	Naval Research Laboratory
PSAC ExCom--Terms Ending 2010				
Dr.	Rickey	Faehl	Site Selection	Retired
Dr.	Tim	Grotjohn		Michigan State University
Dr.	Richard	Hubbard		Naval Research Laboratory
Dr.	Don	Shiffler	Awards	AFRL/DEHP
Dr.	Mary Ann	Sweeney		Sandia National Laboratories, Org. 1670
Dr.	Paul	Woskov		MIT Plasma Science and Fusion Center
PSAC ExCom--Terms Ending 2011				
Dr.	Keith	Cartwright	STG	AFRL/RDHE
Dr.	Robert	Commisso		Naval Research Laboratory
Dr.	Simon	Cooke		Naval Research Laboratory
Dr.	Christine	Coverdale		Sandia National Laboratories
Prof.	Michael	Kong		Dept. Electronic Electrical Engineering
Dr.	Baruch	Levush		Naval Research Laboratory
PSAC ExCom--Terms Ending 2012				
Dr.	Monica	Blank		Communications and Power Industries
Dr.	Jeremy	Chittenden		Plasma Physics Group, Blackett Laborator
Dr.	John	Foster		University of Michigan
Dr.	Joseph	Kindel		Physics Department
Dr.	Scott	Kovaleski		Electrical and Computer Engineering
Dr.	Manfred	Thumm		Karlsruhe Research Center



# Senior Members & Fellows



## Senior Member Grade

Senior Member is the highest grade for which IEEE members can apply. Candidates must:

- be engineers, scientists, educators, technical executives, or originators in IEEE-designated fields;
- have experience reflecting professional maturity;
- have been in professional practice for at least ten years (or PhD+5 years);
- show "significant performance" over a period of at least five of their years in professional practice.

Examples of significant performance:

- Substantial engineering, responsibility or achievement;
- Publication of engineering or scientific papers, books, inventions;
- Technical direction or management of important scientific or engineering work with evidence of accomplishment;
- Recognized contributions to the welfare of the scientific or engineering profession;
- Development or furtherance of important scientific or engineering courses that fall within the IEEE designated fields of interest.

In addition, candidates for Senior Member grade must supply three references from current IEEE members holding the grade of Fellow, Senior Member, or Honorary Member.

## Benefits of Senior Membership

**Recognition:** The professional recognition of your peers for technical and professional excellence.

**Senior Member Plaque:** Since January 1999, all newly elevated senior members have received an engraved Senior Member plaque to be proudly displayed for colleagues, clients and employers to see. The plaque, an attractive fine wood with bronze engraving, is sent within six to eight weeks after elevation.

**US\$25 Coupon:** IEEE will recognize all newly elevated senior members with a coupon worth up to US\$25. This coupon can be used to join one new IEEE society. The coupon expires on 31 December of the year in which it is received.

**Letter of Commendation:** A letter of commendation will be sent to your employer on the achievement of senior member grade (upon the request of the newly elected senior member).

**Announcements:** Announcement of elevation can be made in section/society and/or local newsletters, newspapers and notices.

**Leadership Eligibility:** Senior members are eligible to hold executive IEEE volunteer positions.

**Ability to Refer Other Candidates:** Senior members can serve as a reference for other applicants for senior membership.

**Review Panel:** Senior members are invited to be on the panel to review senior member applications.



## Qualifications for Fellow Grade Membership

The grade of Fellow recognizes unusual distinction in the profession and is conferred on an IEEE member with an outstanding record of accomplishments in any of the IEEE fields of interest.

Accomplishments that are being honored shall have contributed importantly to the advancement or application of engineering, science, and/or technology bringing the realization of significant value to ***society***.

The nominee shall hold Senior Member grade at the time the nomination is submitted.

The nominee shall have been a member in good standing in any grade for five years or more preceding January 1 of the year of elevation.

The honor is conferred by the IEEE Board of Directors.



## REQUIREMENTS FOR IEEE FELLOW GRADE

**NOMINATOR:** Any person, including non-members, are eligible to serve as a nominator with the following exceptions: members of the IEEE Board of Directors, members of the IEEE Fellow Committee, IEEE Technical Society/Council Fellow Evaluating Committee Chairs, members of IEEE Technical Society/Council Fellow Evaluating Committee reviewing the nomination, or IEEE Staff.

### Responsibilities:

- Submit the IEEE Fellow Grade Nomination Form by 01 March.
- Solicitation of at least five, but no more than eight, references who are capable of assessing the candidate's contributions.
- Solicitation of Endorsements (optional)
- Identification of an IEEE Technical Society/Council to evaluate the nomination.

# THE IEEE FELLOW PROCESS

## RESPONSIBILITIES OF A REFERENCE

- Submit the IEEE Fellow Grade Reference Form by 01 March.

Eligibility: A Reference must be an IEEE Fellow in good standing. The following individuals are ineligible to serve as IEEE Fellow References: members of the IEEE Board of Directors, members of the Fellow Committee, members of the IEEE Technical Society/Council Fellow Evaluating Committee reviewing the nomination or IEEE Staff. In addition, a nominator may not serve as a reference for a nomination he/she is submitting.

## RESPONSIBILITIES OF AN ENDORSEMENT

- Submit the IEEE Fellow Endorsement Form by 01 March.

Eligibility: Any person, including non-members, may be an Endorsement. The following individuals are ineligible to serve as Endorsements: members of the IEEE Board of Directors, members of the Fellow Committee, members of the IEEE Technical Society/Council Fellow Evaluating Committee reviewing the nomination or IEEE Staff. In addition, a nominator may not serve as an endorser for a nomination he/she is submitting.

# THE IEEE FELLOW PROCESS

## IEEE Society/Council Fellow Evaluating Committee

- Evaluates candidates referred by the nominator
- Reviews citation
- Ranks Society candidates and forwards evaluation to Fellow Committee

## IEEE Fellow Committee

- Evaluates candidates
- Scores candidates based on the following criteria:
  - Individual Contributions as Application Engineer/Practitioner, Educator, Research Engineer/Scientist, or Technical Leader
  - Evaluation by the IEEE Society Council
  - References and Endorsements
  - Professional Activities
  - Total years in the profession
- Prepares recommended citations
- Recommends a list of proposed Fellow candidates to the IEEE Board of Directors

# THE FELLOW PROCESS

## Individual Contributions

- **Application Engineer/Practitioner** - Responsible for product development, advancement in system, application or operation, project management or construction activity, process development, manufacturing innovation, codes or standards development, or other application of technology
- **Educator** - Responsible to advance electrical engineering and scientific technology through education by the developing curricula and/or courses that are innovative and unique
- **Research Engineer/Scientist** - Responsible for inventions, discoveries or advances in the state of the art technological advances
- **Technical Leader** - Responsible for a managerial, team, or company-wide effort using technical innovation, and resulting in outstanding performance, economic enhancements, or other advantages to benefit society

## TIMELINES

Nominator	Nomination Form	01 March
Reference	Reference Form	01 March
Endorsement	Endorsement Form	01 March
Society/Council Chair	Submit Scores	15 June
Fellow Committee	Final Review	September
Board of Directors	Approve Slate	November

# 2008 Fellow Statistics

● Total IEEE Voting Membership	295,500	
● Number of Fellows	6,288	
● Number of Female Fellows	172	
● Total Nominations Received	773	813
● Total Candidates Elevated*	295	321

\* The total number of Fellow recommendations in any one year must not exceed one-tenth of one percent of the IEEE voting membership on record as of 31 December of the year preceding

# For Further Information

E-Mail: [fellows@ieee.org](mailto:fellows@ieee.org)

Web: <http://www.ieee.org/fellows>