

IEEE Distinguished Lecturer Program

How it can Benefit your Section Members

Bill Gruver
Systems, Man, and
Cybernetics Society

*Empowering Members
to Create the Future*

IEEE Sections Congress 2011

Biographical Sketch

William A. Gruver (S'68-M'70-SM'80-F'96) is President of Intelligent Robotics Corporation and Professor Emeritus of Engineering Science at Simon Fraser University in British Columbia, Canada. He received the PhD, MSEE, and BSEE degrees from the University of Pennsylvania and the DIC in Automatic Control Systems from Imperial College, London.



His industrial experience includes management and technical leadership positions at GE Factory Automation Products Division in Charlottesville; GE Industrial Automation Center in Frankfurt, Germany; IRT Corporation in San Diego, Center for Robotics and Manufacturing Systems at the University of Kentucky, and LTI Robotic Systems, a California-based startup that he co-founded. He has also held engineering and faculty positions at the NASA Marshall Space Flight Center, DFVLR German Space Research Center, Technical University Darmstadt, U.S. Naval Academy, University of Kentucky, and North Carolina State University.

He is a Fellow of the IEEE and the Engineering Institute of Canada. He was recipient of the GE Management Award, U.S. Senior Scientist Award of the Humboldt Foundation, Civitate Honoris Causa from the Technical University of Budapest, and honorary positions at seven Chinese universities. He is an author of 235 papers and three books on intelligent systems, robotics, manufacturing automation, control, and optimization.

Dr. Gruver is a Past President of the IEEE Systems, Man, and Cybernetics Society for which was President. He has served as an IEEE Division Director and a member of the IEEE Board of Directors, and member of the MGA Board. Dr. Gruver is an Associate Editor of the *IEEE Transactions on Systems, Man, and Cybernetics, Part A: Systems and Humans*. He has served as an Associate Editor of the *IEEE Transactions on Robotics and Automation*, Associate Editor of the *IEEE Transactions on Control Systems Technology*, and he was a founding officer of the IEEE Robotics and Automation Council and an AdCom member of the IEEE Robotics and Automation Society. He co-chairs the SMC Society's Technical Committee on Distributed Intelligent Systems and is General Chair of the 2014 IEEE International Conference on Systems, Man, and Cybernetics to be held in San Diego.

Abstract of Panel Session

The primary purpose of the Distinguished Lecturer (DL) Program is to provide Chapters and other IEEE organizational units with interesting and informative programs and enhance the professional vitality of members by keeping them informed of new technological developments and applications.

Currently, more than 30 Societies have DL Programs, each with their own offerings. During this interactive panel session, examples of successful DL programs will be described to acquaint attendees with what options are available and how to arrange for a presentation.

Incorporating a DL presentation within your local Chapter meetings is an opportunity to increase member engagement, member satisfaction, and enhance the value of IEEE membership, and thereby build and retain membership. There will also be a discussion of how Sections might develop their own speaker programs.

Purpose of DL Programs

IEEE Distinguished Lecturers are engineering professionals who lead their fields in technical developments that shape the global community. These experts:

- Specialize in the field of interest of their societies/councils
- Travel to various technical and regional groups, such society and technical council chapters
- Provide informative lectures to help their audience remain current on technology and promote IEEE membership
- Enhance professional vitality of members by keeping them informed of new technologies and applications

http://www.ieee.org/about/volunteers/tab/distinguished_lecturer_program.html

Panel Members

- Metin Akay - Engineering in Medicine and Biology Society
- Bernhard Boser - Solid State Society
- Pablo Estévez - Computational Intelligence Society
- Steve Gold - Nuclear and Plasma Sciences Society
- Kazuhiro Kosuge - Robotics and Automation Society
- Sheila Hemami - Signal Processing Society
- David Larbalestier - Council on Superconductivity
- S. V. Sankaran - Computer Society
- Bill Gruver – Systems, Man, and Cybernetics Society

IEEE Systems, Man, and Cybernetics Society

- DL Program emphasizes the theory and application of systems science and engineering, human-machine systems, and cybernetics
- Provides \$800/\$1600 subsidy for international travel
- Typically 10-16 visits each year to SMCS chapters in all regions
- Request for visits submitted to VP Membership
 - Name of distinguished lecturer and topic of the lecture
 - Date and venue
 - Expected impact on the chapter
 - Estimated attendance
 - Amount of desired travel support
 - Amount of local support

<http://ieeesmc.org/lecturer/>

DL Visit to South Africa by Bill Gruver

- 12 lectures during Sept 16 – Oct 2, 2009
- International flight expenses supported by SMC Society
- Local travel expenses fully supported by South African Institute of Electrical Engineers
- University lectures co-hosted by South African chapters of the SMC Society and Robotics & Automation Society
- IEEE South Africa Section cooperated in organizing the visit
- Visit coincided with the 125th anniversary of the IEEE and 100th anniversary of the SAIEE



Itinerary included Bloemfontein, George, Cape Town, Port Elizabeth, East London, Durban, Secunda, and Pretoria, and Johannesburg

Topics

- DL Presentations to university faculty and student in 3 cities:
“Distributed Intelligence: A Paradigm Change”
- Bernard Price Memorial Lecture Series to practicing electrical engineers in 7 cities:
“Intelligent Systems for a Global World”



Deputy Vice Chancellor at the University of Witwaterrand, Professor Yunus Ballim, BPML presenter William A. Gruver, And SAIEE President du Toit Grobler.

Best Practices

- Obtained additional support and commitment by engaging the cooperation of non-IEEE entities (in addition to the IEEE section and society/council)
- Met with students to promote establishment of student branch chapters
- Met with leaders of society chapters to discuss leadership opportunities in the societies and IEEE, chapter management, and formation of special interest groups
- Cooperated with local section to organize visits
- Submitted article to the society Newsletter describing the DL visit and its benefits to the membership

Questions/Comments for the Panel Members?

Where to find this Presentation:

This and all Sections Congress 2011 presentations will be available for view at the IEEE Center for Leadership Excellence website.

Visit us for this and other Volunteer Leadership training specifically designed to train volunteers like you!

Let us know what you think:

<http://www.ieee.org/go/cle>