

## DECEMBER 2007 ISSUE

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### Chairperson's Message *By Ted Pappas*

In the infamous words of Jim Morrison "this is the end". This is my final message as Chairperson of the Long Island Section. As such it will be short.

I will start on the one negative note for the past year. The Pulse has experienced problems which has stopped it from being published for a number of months. We are working hard to resolve these problems and will shortly. Please be patient.

Unlike my predecessor, I did not set specific goals for the year. Instead I focused on volunteerism and networking. The rewards have been outstanding.

- Membership, which has been declining for several years, appears to be flat or slightly increasing in 2007.
- We are in the process of establishing an Instrumentation and Measurement Society Chapter on Long Island. My thanks to Nikolaos Golas for his tireless efforts in this matter.
- Steve Rubin volunteered to fill the position of Legal Affairs Chair. In addition he is also providing regular articles about legal issues for The Pulse.
- Cesar Bedoya began contributing articles on IT for The Pulse.
- LISAT 2007 was a huge success as was the addition of a student paper track.
- The 2007 Awards Banquet continued to be a positive experience for all involved. Our themes of volunteerism and networking were woven throughout the evening.
- The Corporations on Long Island continued their impressive support to our section. This support allows us to continue our policy of offering seminars and other training venues to the engineers of Long Island for little or no cost to them.
- Jon Garruba and Bryan Tropper volunteered to stand for election as Secretary and Second Vice Chair, respectively. One of the primary means to measure the health of a section is the ability to draw new talent into leadership roles. We have no trouble here.

In summary, the section has hit some speed bumps but is very healthy. I would like to thank the current leadership team of Bill Deagro, Sandy Mazzola, Brian Quinn and Lucy Khazanovich for their time and enthusiasm. The entire EXCOM also deserves my heartfelt thanks for putting up with me for a year. They had to withstand the introduction of some new reporting methods and a more sincere adherence to Robert's Rules of Order. I am happy none of them quit! A special thank you also goes out to the past Chairs and to Charles Rubenstein, now director elect of Region 1, for their wisdom and advice.

While my days as Chair are ending you will not be free of my writing. If the incoming leadership agrees, I will still be Membership Chair and will be assuming the roles of Pulse Liaison and Secretary of METSAC. It has been a very pleasurable and enlightening year for me and I hope the Long Island members feel that I helped the Section move in a positive direction.

Please have a safe and happy holiday and don't forget to...

**Get Involved and Network!!!**

Ted Pappas  
tpappas@keysenergy.com  
www.IEEE.LI

## NEW 2008 OFFICERS

These are your Section Officers for 2008

**Chairman** - Bill DeAgro  
**1st Vice Chairman** - Sandy Mazzola  
**2nd Vice Chairman** - Bryan Tropper  
**Treasurer** - Brian Quinn  
**Secretary** - Jon Garruba

## MESSAGE FROM LEGAL AFFAIRS CHAIRMAN

The Patent Office ("PTO") issued a sweeping 140-page, single-spaced document detailing changes regarding the review of patent applications in United States. I share with you a brief summary. Probably most interesting is the fact that the day the final changes were announced, an inventor filed a lawsuit against the PTO requesting an order preventing their implementation. The theory was that the rules violate his constitutional right to the protection of patent property.

In theory, the rules are designed to reduce the backlog of patent applications in the PTO and therefore relate to: 1) the number of chances an inventor has to convince the Examiner of patentability and 2) the number of claims. When you file a patent application, you typically have two chances to convince the Examiner that the invention is patentable. If you fail, you can file what is called a "continuation" application, in effect paying another application fee to continue prosecution and continue trying to convince the Examiner of the patentability of the invention. In the past, this process could go on forever (in some cases for more than 10 or 15 years). The new rules limit such continuation applications to a total of three unless a petition is filed.

The scope of a patent is defined by its claims. Prior to the new rules, a patent application could have as many claims as desired though fee calculations practically limited the number of claims to 20 with three of those claims being "main" or "independent" claims that do not reference any other claims. The new rules limit all applications to five independent claims and a total of 25 ("25/5") claims. Any applications with a larger number of claims will require an examination support document ("ESD") explaining why such extra claims are needed. Interestingly, applications that are

*(Continued on page 8)*



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For more general information on IEEE's Continuing Education products and services, visit <http://www.ieee.org/web/education/home/index.html>. Specific inquiries can be directed to Celeste Torres via email, [c.torres@ieee.org](mailto:c.torres@ieee.org) or by phone +1 732 981 3425.

## Tentative Schedule of 2008 EXCOM Meetings.

This is a tentative schedule of the IEEE Long Island Section Executive Committee meetings for 2008. The Section normally meets the last Monday of each month, but is subject to change. Please check with IEEE.LI for updates.

Feb 25	Jun 2	Oct 27
Mar 31	Jun 30	Nov 24
Apr 28	Sep 29	Dec 15

The meeting are held at Telephonics on 110 in Farmingdale. If you wish to attend please contact Bill DeAgro at [wdeagro@optonline.net](mailto:wdeagro@optonline.net).



## AIAA/IEEE SECTION MEETING

Tuesday, January 15, 2008

### Grumman: An Historical and Personal Lookback

Speaker: **Lois Lovisolo**

Director, Bethpage Public Library, formerly Northrop Grumman Historian

**Location:** Bethpage Public Library  
Auditorium, First Floor  
47 Powell Avenue  
Bethpage, NY 11714

**Time:** 6:00 PM Social Time  
6:30 PM Pizza  
7:00 PM Presentation

**Cost:** Free



**RESERVATIONS REQUIRED: RSVP BY January 14, 2008 to:  
Dave Paris 516-458-8593 or [davidsparis@optonline.net](mailto:davidsparis@optonline.net)**



Lois Lovisolo was employed by Grumman from 1978 to 1994, serving as assistant to the historian and then as Corporate Historian starting in 1985. During that time, she learned about the history of Grumman aircraft from the beginning of the company in 1929 to its acquisition by Northrop in 1994. Since leaving Grumman, she has been a librarian. She joined the Bethpage Public Library in 1995 as Head of Reference and has been the library's Director since 2005.



Lois has a B.A. from the University of Detroit, an M.B.A. from Adelphi University, and an M.L.S. from C.W.Post.



The presentation will be a retrospective slide "walk" through almost 65 years of Grumman products and the history that accompanied them. Most of the Grumman aircraft including pre-WWII, wartime models, and post war jets plus the Apollo Lunar Module will be covered.



#### Directions:

The library is between Broadway and Route 135 in Bethpage. Take Route 135 to Exit 8, then West on Powell Avenue for about 0.25 miles. The library is on the south side of the street. Park in the library's parking lot across Powell Avenue, opposite the library.



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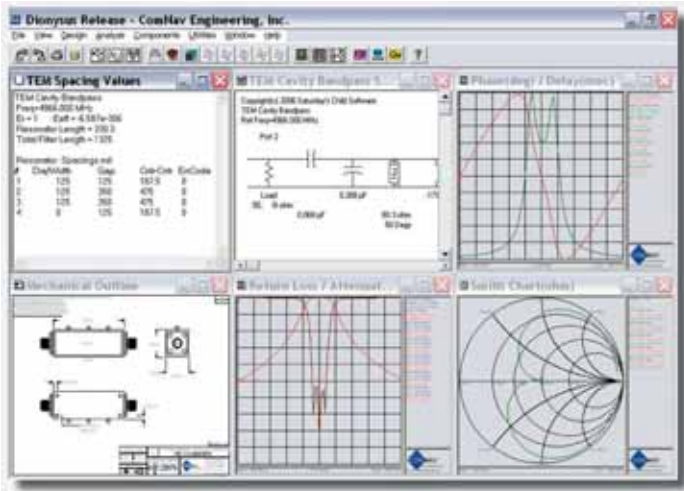
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The Long Island Chapter of the IEEE Microwave Theory & Techniques Society is presenting a lecture titled:

## *Dionysus: Microwave Filter Design (that leaves more time for wine and song)*

*Wednesday, 2008 January 30th at 6:00 PM*

This seminar is free and all are invited. Refreshments will be served at 6:00 PM, lecture starts at 6:30 PM.



**Martin Geesaman** - ComNav Engineering

**Abstract:** Filter design is often considered a black art. As more and more engineers specialize in digital engineering, RF filter design expertise is becoming scarce. The lecture will center around Dionysus, an easy to use, powerful tool that allows engineers with limited filter expertise to design and analyze complex filter circuits. The seminar will discuss rudimentary background information on filter design, and then demonstrate how Dionysus can be used to design complex filter circuits, using multiple transfer functions, and generate expected performance data. Also discussed are transferring

simulation data as S-parameters into higher-level system simulators. A free, full-featured version of the software will be distributed to all those interested.

**Speaker Biography:** Martin Geesaman, ComNav Engineering's President, has been involved in the microwave component industry for over 20 years. Mr. Geesaman's design experience covers a broad range of passive components, ranging from lumped and distributed filters, to couplers, to switches, and to software. Mr. Geesaman developed much of ComNav Engineering's design software. Mr. Geesaman has a Bachelors degree in Physics from Salisbury State University, a Bachelors degree in Electrical Engineering from the University of Maryland and a Masters of Business Administration from the University of Southern Maine.

**Location:** This lecture will be held at Telephonics Corporation located at 815 Broad Hollow Road in Farmingdale. Refreshments will be served starting at 6:00 PM, and the presentation will begin at 6:30 PM. (Please try to join us early and enjoy networking with your colleagues.) The lecture is scheduled to last 60-90 minutes. Photo ID is needed to enter the facility.

**Directions:** Southern State Parkway, Exit 32 North (Broad Hollow Road, Route 110), Pass 56th Fighter Group, Telephonics is on the Right, #815 or LIE, Exit 49 South (Broad Hollow Road, Route 110), Pass Airport Plaza, Telephonics is on the Left, #815

**Registration:** Registration is required, and is available online only. Please visit the calendar page of the IEEE Long Island Website [www.IEEE.LI](http://www.IEEE.LI), click on the registration link, and fill out the form. All are invited, and the lecture is free.

**Seminar Coordinator:** James Colotti, Chair of the IEEE Microwave Theory and Techniques Society, LI Section

## Telephonics Awarded Contract for Secure Intercommunication System on UH-60M COMHAWK

Telephonics Corporation has received a contract award from Joint Venture Yulista SES (JVYS) in support of the US Army's Aviation and Missile Research, Development and Engineering Center's (ARMDEC) Prototype Integration Facility (PIF) to provide the Intercommunications System (ICS) for the UH-60M COMHAWK helicopters.

Telephonics will supply an Intercommunications system for the unique C2 console based upon its advanced Secure Digital Intercommunications (SDI) system and components of its TruLink wireless intercommunications system. The C2 console ICS will be integrated with the existing flight deck ICS and the unique COMHAWK mission equipment. The flight deck ICS is the US Army Common Digital Intercommunication SDI system as supplied by Telephonics on the standard UH-60M.

SDI is a TEMPEST-qualified intercommunication system, which manages all of the crew audio communication and radio/navigation resources aboard the aircraft. The U.S. Army has selected SDI as the Common Digital Intercommunication System for its aviation platforms. In addition to its use in the UH-60M Black Hawk's cockpit, it is being installed on all Army CH-47F Chinooks, MH-47's and MH-60's of the 160th Special Operations Aviation Regiment (Airborne) and on the ARH-70A Armed Reconnaissance Helicopter.

TruLink is a wireless communication system that provides full duplex, voice-activated, hands-free mode between airborne and dismounted crewmembers. It has been selected by PEO Soldier as the Air Warrior Aircraft Wireless Intercom System (AWIS).

The PIF is a government-owned, government-operated facility that rapidly transitions concepts into fielded solutions for the U.S. Army Aviation & Missile Command (AMCOM), the Department of Defense, and ultimately, the warfighter.

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# Northrop Grumman Awarded Aircraft Installation Contract

Northrop Grumman Corporation: has been awarded a contract from the U.S. Navy to upgrade three additional fleet EA-6B Prowler aircraft with the latest electronic attack system. Capable of degrading and disrupting enemy electronic activities, Prowlers are flown by the Navy and Marine Corps to support ground troops, airborne forces and ships at sea.

The \$6.8 million contract includes an option to upgrade a fourth aircraft for an additional \$2 million.

The contract is for the installation of Improved Capability (ICAP) III kits,

which Northrop Grumman has produced under a separate contract, into fleet EA-6B aircraft. Kits include the new ALQ-218 receiver, a new crew-workstation display system, and other hardware and software items.

First delivery is April 2008. The installation will occur at the company's St. Augustine, Fla., manufacturing center.

To date, three Navy squadrons have been outfitted with the new ICAP III airborne electronic attack system. All three have seen service in Iraq.

"The ICAP III electronic attack weapon

serves every sailor, sold Marine and airman in theater, and its operators are finding new, creative ways to use it to ensure the safety and success of our military in the air and on the ground," said Patricia McMahon, vice president of Electronic Support and Attack Solutions for Northrop Grumman.

Once these four ICAP III kits are installed, there will be 15 operational ICAP III Prowlers in service with the Navy. The current expectation is that the Department of the Navy will be operating ICAP III Prowlers until 2018.



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The Fourth Annual Conference on  
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The IEEE Long Island Section and IEEE Region 1 present the Fourth Annual  
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The IEEE Long Island Section in cooperation with its technical society Chapters and IEEE Region 1 will hold the 2008 Long Island Systems, Applications and Technology Conference (LISAT2008) on Friday, May 2, 2008 at Farmingdale State College of the State University of New York.

This fourth annual Conference will feature presentations that highlight new and interesting work on a variety of electronic systems, technologies and applications - most of which are Long Island based, as well as a graduate student paper track. For additional information please see the Call for Papers.

**Conference Chair**

Charles Rubenstein (*Pratt Institute*)

Conference Vice Chair Babak Beheshti (*New York Institute of Technology*)

**Technical Program Co-Chairs**

Dave Mesecher (*Northrop Grumman Integrated Systems AEW & EW Systems*)

Dan Rogers (*Telephonics*)

Jesse Taub (*Independent Consultant*)

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**This is the LISAT2008 Conference web site at: [www.ieee.li/lisat](http://www.ieee.li/lisat)**

All information listed on this website is correct at the time of publication. The organizer reserves the right to change the program without prior notice.

**MESSAGE FROM LEGAL  
AFFAIRS CHAIRMAN**

*(Continued from page 1)*

related to one another and include "substantially overlapping exposure" may be grouped together so that the combined total number of claims for both applications must be 25/5 claims.

The ESD is an incredibly onerous and expensive document that includes many pieces. It must state that a pre-examination search was conducted directed to the claimed invention. The search must involve U.S. patents, applications, foreign patent documents and non-patent literature. A listing of references most closely relate to the subject matter of the claims submitted. The applicant likely will have to map the limitations of each claim to each reference and show where the reference discloses particular claim features. The ESD must further include a detailed explanation showing how each claim is patentable over these cited references and why someone with ordinary skill in the respective art would not have combined the references to produce the claimed subject matter. Further, the ESD must show how each claim limitation is supported by the specification of the application.

With so many changes, it will take some time to determine how these rules will play out.

*Steven Rubin  
srubin@wolfblock.com*

**Northrop Grumman's Second E-2D  
Advanced Hawkeye Pilot Production Aircraft,  
Delta Two, Completes Successful First Flights**

The second E-2D Advanced Hawkeye development aircraft, known as Delta Two, built for the U.S. Navy by prime contractor Northrop Grumman Corporation completed its first flight in just over two hours from the company's Florida manufacturing and flight test center Nov. 29 followed by a second flight Dec. 4.

"The first flight of our second development aircraft signals another major program performance milestone for the E-2 program and for Team Hawkeye. It's clear by our consistent team effort that we're focused on delivering to the Navy its arsenal of 21st century network-centric warfare and battle management capabilities when we said we would," said Tom Vice, vice president of Airborne Early Warning and Battle Management Command and Control Programs - Navy for Northrop Grumman's Integrated Systems sector.

"Team Hawkeye and our Navy program team are performing in stellar fashion. We are right where we want to be in flight test. The combination of commitment and communication from the integrated Navy and industry team is the key to the success we have seen in this program," said Capt. Randy Mahr, NAVAIR Hawkeye program manager.

Piloting the test aircraft was Mike

Holton, an 18-year Northrop, Grumman experimental test pilot veteran with 25 years of E-2 test pilot experience. Co-piloting Delta Two was 21-year veteran and the Airborne Early Warnings program's Chief Test Pilot Les Ryan, who has tested E-2s for over 26 years. Joining them in the flight was Wyle Weapon System Operator Ray Collazo, an experimental test weapon system expert with 17 years of test experience. All three are Naval Academy graduates and flew with Navy E-2 squadrons during their military careers. Collazo and Holton flew together in VAW-112 and Ryan flew for VAW-114.

During the flight of the program's second system design and development aircraft, the team conducted a series of air vehicle tests to evaluate airplane flying qualities, engine response, and cockpit instruments.

"Our go-forward plan is to fly another flight to check out engine air start capability, and high angle of attack flying qualities, and then we will complete the installation of the weapon system. Once the weapon system is in, we will fly approximately two hundred flights to evaluate the new radar. And just like Delta One, which flew its first flight on Aug. 3, Delta Two flew just like an E-2C," Holton said.



ASME/ISA LI Sections Technical Meeting and Seminar

# ENVIRONMENTAL SIMULATION TESTING TECHNOLOGY

WALTER CIENSKI, SHELDON LEVINE, TONY PHEKOO  
AERO NAV LABORATORIES, INC, COLLEGE POINT, NY

**Wednesday, January 16, 2008**

**5:30 PM Sign-In and Refreshments • 6:00 PM Presentation**

**Location:** Hofstra University, Hempstead, NY, Student Center - north side of Hempstead Turnpike, Plaza West Room (adjacent to the main cafeteria). Meadowbrook Parkway Exit M4; Go west on Hempstead Turnpike (Route 24 W) about one mile to the Hofstra campus. Turn right just before the second overpass, entering the Hofstra North Campus. The Student Center is immediately on you left. Park in the small lot, at the first left, or continue a bit farther, make a left and park in the big lot.

**Note:** Maps and additional directions can be found at [www.hofstr.edu/about/infocenter](http://www.hofstr.edu/about/infocenter)

**Cost:** Attendance is free of charge for ASME, ISA members and non-members, but there is a cost if you wish to obtain PDH credits. Light refreshments and food will be served.

**PDH Credits:** ASME has approved this seminar for two Professional Development Hour (PDH) credits. ASME will issue a certificate by mail for two PDH credits to attendees who pay a processing fee of \$35 (ASME members) or \$45 (non-members). Please state when you register if you are interested in a PDH certificate and bring a check, made out to ASME Long Island, to the seminar.

**Information:** John Klein, 516-346-3108

**Registration:** Please register no later than January 9, 2008, by calling John Klein at 516-346-3108. Please provide your name, daytime phone number, email, company, society affiliation.

**Seminar Outline:** The purpose is to present principles of environmental simulation test technology. The seminar is designed to enable the attendees to become aware of the nature of the various test techniques, the test philosophies, test parameters, and interpretation of test results. The seminar consists of a lecture with both stills and video clips to illustrate the topics being presented. It will, in addition, give attention to those particular requirements which the customer must address when planning, conducting and interpreting test results. Various tests, as described by ASTM or MIL-STD-810 will be discussed, such as: Vibration (sinusoidal and random), Salt fog, Sand and dust, Humidity, QUV, Salt fog + SO<sub>2</sub>.

**About our Distinguished Speakers:** Walter Cienksi is the laboratory supervisor at AERO NAV LABORATORIES in College Point, New York. He is responsible for the daily operation of the test facility. Walter is also involved in the development, design and application of all test programs. Walter is a graduate of the State University at Farmingdale and also holds an Aerospace Powerplant Technician Certificate. He has over 35 years experience in the environmental testing field, which includes service with TII Testing, Curtiss Wright Flight Systems and AERO NAV LABORATORIES. He has extensive hands-on experience in vibration, shock and environmental simulation testing.

Sheldon Levine is vice-president of marketing at AERO NAV LABORATORIES in College Point, Queens. He is in charge of the marketing and business development activities at the laboratory. A mechanical engineering graduate of the City College of New York (CUNY) Sheldon holds a masters degree in heat transfer and fluid mechanics. His experience includes 34 years at EDO Corporation where he was a senior staff engineer. He was part of the team that designed, developed and tested helicopter-towed gas turbine powered hydrofoil boats for the U.S. Navy. Organizations: American Society of Mechanical Engineers, Institute of Environmental Sciences & Technology.

Tony Phekoo is Vice-President of engineering/sales at AERO NAV LABORATORIES in College Point, Queens. He is in charge of the engineering and customer relations activities at the laboratory. Tony is an electro-mechanical engineering graduate of the City College of New York (CUNY). His experience includes over 20 years at AERO NAV LABORATORIES. His expertise and knowledge are in the area of Acoustics, Electro-Dynamic Shaker Control Shock & Vibration, EMI / RFI, Fixture Design, RFQ/Cost Estimation and Technical Procedures and Reports. Organizations: American Society of Naval Engineers, Navy League.

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# New Southern Area Chair Elected

Dr. Gerhard Franz has announced the election of Durga Misra to Southern Area Chair for 2008-09. In issuing the announcement, Dr. Franz said "I would like to thank all the candidates for their willingness to serve. We had four outstanding candidates and I sincerely hope that the three unsuccessful candidates will continue to serve the IEEE as volunteers as they have done in the past."

Dr. Franz also thanked the section chairs and their representatives for their efforts to

elect the new area chair and expressed his appreciation of the cooperation he received over the past four years.

"I wish Durga the best in his new position. I will work with him to assure a smooth transition. Our new Region 1 director has asked me to serve as the chapter coordinator for the Region. I am happy that I will be able to use the experience I have gained working with all of you to continue to strengthen the service of the IEEE to its members."



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## IEEE Long Island Section CALENDAR

No membership requirements, no registration, no fees at meetings unless otherwise noted. Please visit our website at [www.IEEE.LI](http://www.IEEE.LI) and click on the calendar for online registration (as available) & for listing details/updates.

### JANUARY

**15** Joint AIAA/IEEE Meeting  
**Grumman: An Historical and Personal Lookback,**  
7:00PM - See Page 4

Presented by Lois Lovisolo. Bethpage Library Bethpage, LI.

**16** Environmental Simulation Testing  
Technology  
5:30PM

Welcome, 6:00 Presentation. AeroNav Labs. College Point, NY. Info. John Klein, 516-346-3108.

**28** EXCOM Meeting  
6:30PM

Telephonics Farmingdale, LI.

**30** MTT Society Meeting  
**Dionysus: Microwave Filter Design,**  
6:30PM - See Page 6

Presented by Martin Geesamen. Telephonics Farmingdale, LI.

### FEBRUARY

**6** Long Island Consultants Network  
7:00PM

Biarcliff College Great Room, Bethpage, NY. Contact: John Dunn, 516-378-2149.

**25** EXCOM Meeting  
6:30PM

Telephonics Farmingdale, LI.

### MARCH

**31** EXCOM Meeting  
6:30PM

Telephonics Farmingdale, LI.

### MAY

**2** LISAT 2008  
**Long Island Systems, Applications and Technology**

SUNY Farmingdale, LI.

**5** Long Island Consultants Network  
7:00PM

Biarcliff College, Great Room, Bethpage, NY. Contact: John Dunn 516-378-2149.



## Long Island Section Officers

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# IEEE PES

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# CHICAGO

**New Schedule this year:**

**Monday April 21**

Tutorials all day and Conference Reception from 6pm – 9pm

**Tuesday morning, April 22**

Opening Session

**Tuesday, April 22 – Thursday, April 24**

Technical Sessions, Exposition, Poster Sessions

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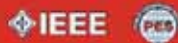
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