

# the Beacon

Welcome to a  
New Year!

The Monthly Publication of the Maine Section, IEEE [www.ieee.org/maine](http://www.ieee.org/maine)

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## Chair's Column

by David Kotecki, Section Chair

Greetings and welcome to 2004. Hope everyone is enjoying the nice warm weather in Maine. As we start the new year, there are a number of changes and exciting events which will effect the IEEE community in Maine. First, this year we will distribute only only three printed issues of the Beacon. To reduce costs and provide information in a more timely manner, announcements for upcoming meetings and events will be distributed electronically using the e-mail address you have on file with IEEE. So if you haven't updated your e-mail address lately, it may be a good time to do so by going to <https://myieeemembership.ieee.org/contact/coa>.

For anyone who would does not have easy access to e-mail and needs to receive printed copies of announcements, if you complete the coupon below and mail it to us, we'll make sure you are still notified of future meetings and events through regular mail. This year's Annual General Section Meeting is being organized by Mark Waite

who has been working hard to put together a meeting around the theme: "Where are the jobs and what can be done to increase engineering opportunities in Maine." See page 3 for a Heads up! for this exciting meeting. Also this spring, The University of Maine will dedicate it's new Engineering and Science Building for Electrical Engineering and Advanced Materials Research. This \$15M facility represents one of the largest investment the state has made in Engineering and the dedication ceromony should provide a good time for all. Finally, for any of you who are UMaine graduates, the student section of IEEE is running a Faculty Dollar Dare to raise money for an IEEE Undergraduate scholarships.

Now wouldn't you pay to see UMaine faculty make fools of themselves (even though we do this every day anyway). Personally, I'd like to see our Secretary, Scott Dunning, spend a day walking around campus in a dress wearing a sign that says UNH hockey rules! Details can be found at <http://www.eece.maine.edu/ieee>. At any rate, hope everyone stays warm and has fun.

The IEEE Beacon is moving to an electronic format. To receive future meeting and event announcements by regular mail, please complete and send this coupon to the address below.

Yes, I would like to receive meeting and event announcements by regular mail

Name: \_\_\_\_\_

Address: \_\_\_\_\_

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Send to: David E. Kotecki, 55 College Avenue, Orono, ME 04473

Maine Engineering Promotion Council

presents

## Maine Engineers Week Banquet and Expo 2004

Feb. 27 and 28

Orono, ME

The **Maine Engineer's Week 2004 banquet** will be held at the **Black Bear Inn & Conference Center in Orono** on February 27, 2004 from 6 PM to 9 PM. This year's speaker is Mary (Missy) Cummings, PhD. A naval officer and military pilot from 1988-1999, she was one of the Navy's first female fighter pilots. She is currently the Boeing Assistant Professor in the Aeronautics & Astronautics Department at the Massachusetts Institute of Technology. Her research interests include human interaction with autonomous vehicle systems, humans and automation, decision support, human-computer interaction, and the ethical and social impact of technology. More information on Missy can be found at the MIT web site, <http://web.mit.edu/aerastro/www/people/missyc/index.html> Download banquet registration forms at the MEPC web site, [www.engineeringME.com](http://www.engineeringME.com).

The **Maine Engineers Week Expo** will be held on Saturday, February 28, 2004 at the **University of Maine Field house in Orono, Maine**. This event is bigger than ever with the move to the Field house. From 9 AM to 2 PM, Maine's top engineering firms, engineering schools, government agencies, and industry will be set up exhibits throughout the Field house. In addition to the demonstrations and exhibits, there will be activity tables set up by engineers and educators for kids, parents, and the general public to discover engineering and science through hands-on interaction. Admission to the event is only \$2, so bring your family, your kids, your scout troop or at least yourself and help support the engineering profession. Lunch will be available on site.

**For more information regarding the Maine Engineering Expo**, please visit the MEPC web site at [www.engineeringME.com](http://www.engineeringME.com) or call (207) 848-5569.

### New Senior Members

The following Maine Section members have recently been elevated to Senior Member status:

**Brian A. Conroy**

**Earl R. MacDonald**

**David C. Potts**

**Congratulations!**

### Section Contact Persons

Oftentimes Section members need a person in the section whom they can contact to have questions answered about events, activities, etc. The following two section members have agreed to serve as contact persons for the Maine Section:

**Brian Conroy**

W: 791-1023 H: 797-3076

E-mail: [brian.conroy@cmpco.com](mailto:brian.conroy@cmpco.com)

**George Elliott**

W: retired H: 990-2350

E-mail: [gelliott@eece.maine.edu](mailto:gelliott@eece.maine.edu)

### Heads Up! For the Maine Section 2004 Annual Meeting

Mark your calendars and plan on attending the Maine Section 2004 Annual General Meeting:

**When:** April 30, 2004

**Where:** Black Point Inn, Prousts Neck, Scarborough, ME

**Schedule:** Noontime thru evening banquet with speaker

The Computer Science and Electron Device Society of the  
Institute of Electrical and Electronic Engineers proudly presents:

**ASMC Preview**

Presented by:

Fairchild Semiconductor and National Semiconductor Engineers

**March 4, 2004**

**Presentations:**

1. Yield Enhancement through Defect Reduction in Post Nitride Wet Strip Applications

Brain M. Dries, Fairchild Semiconductor

2. NPN Transistor Improvement by Cumulative Resist Processing

Larry Szendrei and Steven Leibiger, Fairchild Semiconductor

3. Front- And Back-End Process Characterization By Sims To Achieve Electrically Matched Devices

Thanas Budri, National Semiconductor Corp.; Dmitry Kouzminov, Materials Services

4. .A Method for Controlling Residual Film Stress in LPCVD Polysilicon Films for Surface Micromachined MEMS

Jason Woloszyn, Fairchild Semiconductor Corporation

5. Silicon Carbide in a Silicon World: Introducing Wide Bandgap Semiconductor Production Into a Silicon Fab

Joseph Shovlin, Richard Woodin, Tony Witt, Fairchild Semiconductor Corporation

6. Creation of a Precision High Value Polycrystalline Silicon Resistor

James Olson, Steven Leibiger, Fairchild Semiconductor Corporation

**Location:** National Semiconductor, Moose head Room, McBride Building, South Portland, Maine

**Cost:** \$ 5 /person

**Agenda:** 5:30 PM - 8:00 PM : Lectures and Pizza. Due to the number of presentations, we will set up tables around speaker's podium and eat during the talks.

**Please pre-register by email to either:** Steve Leibiger ([steven.leibiger@fairchildsemi.com](mailto:steven.leibiger@fairchildsemi.com)) or  
Steve Adler ([Steven.J.Adler@nsc.com](mailto:Steven.J.Adler@nsc.com))

**IEEE Student branch News**

The Maine IEEE Excom is pleased to congratulate the '03/'04 elected officers of the IEEE Student Branches as follows:

	USM	UM
Chair	Rocco Sbardella	Roxie Paine
Vice Chair	Wayne Keller	Ben Martin
Treasurer	Ngo Tho	Chris Thibault
Secretary	Jeremy Pennell	Tim Beaucage
Fundraiser		Lance Black
B. Service Org.	Todd Swanson	
Recruitment		Steven Turner
Community Rel.		Janelle Tonti
Web Page Mgr.		Patrick Spinney

Website URLs:

USM: [www.eelinux.ee.usm.maine.edu/~ieee](http://www.eelinux.ee.usm.maine.edu/~ieee)

UM: [www.eece.maine.edu/IEEE/events.html](http://www.eece.maine.edu/IEEE/events.html)

	USM	UM
Counselors	Prof. Marciusz Jankowski	Prof. Dave Kotecki Prof. Judith Pearce

Many thanks for the years of devoted counselling by Prof. Carlos Luck to the IEEE Student Branch of USM. Prof. Luck relinquished his counselor task in accepting his new position as Engineering Department Chairman at USM.

Readers are encouraged to visit the updated/current Student Branch websites to learn of the impressive current activity plans at each campus.

# Beacon Publishing

The Beacon is published on a monthly schedule based upon the need to advertise upcoming meetings. All material submitted for the Beacon must be received by the editor no later than the 15th of the month preceding the issue in which it should be included. Sorry, NO EXCEPTIONS!!

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