

What's New for Students



October 2012

Welcome to the **What's New for Students** e-newsletter, designed to help you efficiently connect with your IEEE Student member benefits. Here you'll find information on student competitions, events, scholarship opportunities, be able to search a complete list of available member benefits and services and much more.

We would love to hear [feedback](#) on what you would like to see in future editions. Thank you for your membership.

Digital Delivery of *IEEE Spectrum* and *The Institute*

New for the 2013 membership year IEEE student and graduate student members will have to look in their inbox, not their mail box, for their monthly issue of *IEEE Spectrum* and the quarterly issues of *The Institute*.

To better serve a growing student membership who is accessing a majority of information on the Internet, tablets or mobile devices, all active students will transition from print to digital delivery for the 2013 membership year. Students wanting to continue a print subscription will have to pay an additional fee to IEEE membership dues of US\$5. Or students can subscribe to both print and digital delivery of *IEEE Spectrum* and *The Institute* for an increase to member dues of US\$14.95.

Transition Schedule

All students who are members for 2012 will continue to receive print delivery through December 2012. Upon renewal for the 2013 membership year, digital delivery will begin with the next available issue.

All new students joining for 2013 will automatically begin receiving digital delivery with the next available issue.

Delivery Options with Student Membership

Delivery Method	Cost
Digital Delivery	Included
Print* (No Digital)	+US\$5.00
Digital and Print*	+US\$14.95

* Requires an additional fee

Student Member Transition to Digital Delivery

Student Members (including GSM)	16 Aug 2012 – Dec 2012	Jan 2013 – Feb 2013	Mar 2013 – 15 Aug 2013
2012 Student Members	All active student members will receive print delivery through December 2012. Student members who renew for 2013 will begin receiving digital publications upon the next available issue.*	Upon renewal, student members will begin receiving digital publications starting with the next available issue.* Student members who have not renewed will continue receiving print publications.	Service will discontinue for members who have not renewed for 2013. Access to all benefits, including delivery of <i>IEEE Spectrum</i> will end. Members renewing during this period will receive digital publications upon the next available issue.*
New Student Members for 2013 membership year	Upon joining, student members will receive digital publications.*		

* Note: Scenarios represent default delivery settings for publications. Members have the option to choose print vs. digital delivery, or a combination of both. See table, Delivery Options with Student Membership.

Interactive

Content

Using browser settings, individual pages can be bookmarked and articles can be shared on Facebook, Twitter or via e-mail. Links are embedded in the articles, so there's no need to copy and paste URLs. Browser readers can search for keywords in the issue as well as access an archive of all issues of *IEEE Spectrum* and *The Institute* dating back to July 2007.

Students will receive an e-mail "alert" each month providing links to web browser based or PDF downloadable versions of the current month's *IEEE Spectrum* and quarterly links to the digital issues of *The Institute* in March, June, September, and December. Within the downloadable PDF members can use the navigation bars or embedded links to move through the pages or visit other linked content. One can also zoom in and out on a page.

Student digital subscribers may also get their digital version of *IEEE Spectrum* on their iPad, Android or Kindle Fire tablets. As a reminder, *The Institute* is updated weekly online and *IEEE Spectrum* (online) is a 24/7 updated co-branded Web site that includes considerable original content and interactive features.

For more information about student membership or the move to digital delivery, [visit the IEEE Support Center](#) or call +1 800 678 4333 to get in touch with a representative.

[Register for the Formula Hybrid Competition](#)

Live from IEEEExtreme 6.0

The 2013 Formula Hybrid International Competition, sponsored by IEEE and Society of Automotive Engineers, Inc. (SAE), will take place at the New Hampshire Motor Speedway in Loudon, New Hampshire, USA, 29 April - 2 May 2013. The event, which challenges students to design, build and race high performance hybrid vehicles, also includes a fuel efficiency component and an electric component. Students with backgrounds in electrical, mechanical and computer engineering are encouraged to compete. Registration is open through 17 December.



[Register for the Formula Hybrid Competition.](#)

Enhance Your Chapter with AfterCollege.com

Since 2008 AfterCollege.com has hosted free Career Networks for IEEE and our individual chapters. Over 20,000 employers use AfterCollege to share opportunities with engineering students and recent graduates. We want to make sure your chapter is taking advantage of this powerful career resource.

An AfterCollege Career Network allows members of your IEEE chapter to:

- Access major-specific internships, scholarships, and new grad jobs;
- Track favorite companies and be the first to know about new opportunities;
- Build professional/academic profiles, viewed by employers;
- Access over a dozen AfterCollege Scholarships.

As an example, here is the AfterCollege Career Network for the IEEE chapter at the [University of Florida](#) and how it appears [on their site](#).

How set up your Career Network: Please e-mail David Meeks of AfterCollege at dmeeks@aftercollege.com, and request a Career Network for your chapter. David will then put together a Career Network specifically for your members and alumni, and will provide you all the information needed to share the resource. If a Career Network already exists for your chapter, David will provide you with that information.

Prepare for IEEE Presidents' Change the World

The IEEE Presidents' Change the World Competition recognizes and rewards students who identify a real-world problem and apply engineering, science, computing, and leadership skills to solve it. The contest offers students the perfect opportunity to have their ingenuity and enthusiasm for engineering and technology recognized by prestigious IEEE members around the globe.

Registration will open in November 2012, however, it is never too early to start your project. If you or your team would like more information, please visit [IEEE Presidents' Change the World Web site](#).

Enter the IEEE/IBM Smarter Planet Challenge

IBM and IEEE are in search of creative team-based student projects for the Smarter Planet Challenge. The purpose of the competition is to identify student-developed projects that solve real world problems. These projects should help students at any level learn about applying engineering, science and other disciplines. It's a great opportunity to put your engineering skills to use...and earn cash prizes too!

The competition is open to college/university students from all geographic locations. Student teams should have three to five members in any year of university study. At least one team member must be an IEEE member. To out more about this exciting learning opportunity, visit: www.ieee.org/go/smarter_planet_challenge or e-mail smartplanetchallenge@ieee.org.

Submissions are **due by 1 November 2012**. [Find out more.](#)

Free IEEE-USA eBook Offered as Special Benefit to IEEE Members

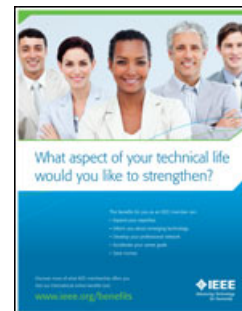
Do you want to feel the excitement of IEEE Xtreme? [Log In to Facebook](#) on 20 October starting at 00:00:00 UTC to see what the participants are up to. For 24-hours you can share the Xtreme excitement and cheer on your fellow students. Don't miss it.

Upgraded E-commerce Platform

IEEE has launched its new e-commerce platform with a greatly enhanced user experience for joining and renewing members. In addition, you can more easily manage your account preferences and purchase products through IEEE *Xplore*.

A list of the most frequently asked questions regarding the upgrade and new sign in security procedures can be found in the [IEEE Support Center knowledgebase](#).

Benefits



Discover more of what IEEE membership offers you. [Visit our Global Benefits Finder.](#)

Entries Sought for Solar Splash Competition

Do you have an idea for a solar-electric boat? Want to put that idea to the test and win an award? Registration is now open for the 2013 Solar Splash, a competition organized by the IEEE Power Electronics Society. Students are given the chance to develop a solar-electric boat and test it on the water in a competition to be held 12-16 June 2013, in Cedar Falls/Waterloo, Iowa, USA.

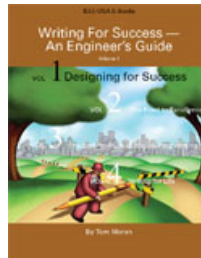
[Find out more about the 2013 Solar Splash.](#)

eBook Classic Feature

As a special benefit of IEEE membership, for the month of October IEEE-USA is offering a free eBook, *Writing for Success—An Engineer's Guide, Volume 1: Designing for Success*.

Writing well is important for today's engineer. Proposals, reports, technical articles, instructional guides, specifications, RFP's, test plans, SOPs, marketing data sheets, white papers, patent applications, and numerous other specialized documents are part of engineers' responsibilities in every discipline.

In the first book of this four-book series, award-winning author Tom Moran presents writing from an engineer's perspective: looking at comparisons between the steps that lead to good engineering practice, and those that result in writing excellence.



This book is not a technical writing text; at least, not the type of text used in most university classrooms. Instead, his hope is that it will serve as an inspiration and guide to help engineers approach their writing tasks with the same confidence and skill that they take to the technical problems that confront them. When that happens, they will find that the e-mails, reports, test plans, and other documents they write are as useful, successful and valued as their engineering efforts.

Writing for Success—An Engineer's Guide, Volume 1: Designing for Success [can be downloaded for FREE](#) through 31 October 2012. Non-member price is US\$5.99.

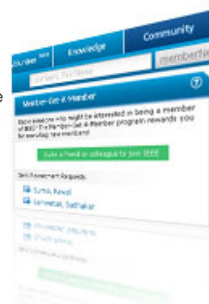
In November the IEEE-USA free eBook will be *The Best of Backscatter from Today's Engineer—Volume 1*. Information on how to download this eBook will be available in the November issue of *What's New for Students*.

IEEE members can purchase three additional books from Tom Moran's writing series, additional volumes in the Best of Backscatter series, and other IEEE-USA eBooks at deeply discounted prices by going to [IEEE-USA eBooks](#). To purchase IEEE members-only products, and to receive the member discount on eligible products, members must log in with their IEEE Account.



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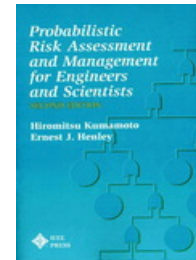
The Member-Get-A-Member (MGM) module in myIEEE allows members to send and track referrals electronically. Found in the 'Community' desktop, the Member-Get-a-Member module contains a form allowing members to send an e-mail to a colleague inviting them to join IEEE. A standard message is included, and members can choose to include their member number (to get the MGM credit), as well as customize the message if they wish. Once messages are sent from the MGM myIEEE module, members can easily track requests and follow up.



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Title: Probabilistic Risk Assessment and Management for Engineers and Scientists

Copyright Year: 1996


Authors: Henley, E., Kumamoto, H.

Publisher: Wiley-IEEE Press

Topics: General Topics for Engineers (Math, Science & Engineering)

Abstract: As the demands of government agencies and insurance companies escalate, societal risk assessment and management become increasingly critical to the development and use of engineered systems in the full range of industrial installations. Packed with real-world examples and practical mathematical and statistical methods for large, complex systems, this definitive text and sourcebook gives you the guidance you need for thorough and conclusive study. You'll find new and updated coverage of all the key topics related to risk analysis: Probabilistic nature of risk, qualitative and quantitative risk assessments, system decomposition, legal and regulatory risks, and much more! The authors also provide end-of-chapter problems and a course outline complete with a new, automated, fault tree synthesis method using semantic networks. *Probabilistic Risk Assessment and Management for Engineers and Scientists*, Second Edition will be of value to anyone working with engineered systems.

To find this and other eBook Classics available to members at no additional cost, sign in to [IEEE Xplore](#) using your IEEE Account.

 **Have a Question?**

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[Ask a Question](#)

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[Moving into the Future with Smart Medicine: Thomas Schmitz-Rode](#)

While attending the IEEE Technology Time Machine in Dresden, Germany, Thomas Schmitz-Rode, Chair of the Department of Applied Medical Engineering at RWTH Aachen University, looks at the state of medical and healthcare technology and considers healthcare delivery and the future of medicine.



[Woo: Behind the honors](#)

A leader in biomechanics research, Professor Savio L-Y Woo takes a moment to explore his feelings upon being honored at the IEEE Awards ceremony in Boston, MA, and to offer advice to students on how to be different from everyone else.

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