

Many times over, your original instinct has proven true.

Attention
 UIA
 Members

Do you know of an ultrasonic company that doesn't belong to UIA? Please provide us with the contact information and we'll invite them to join.

Please send us your news. We plan to feature member success stories in future issues of *Vibrations*. Send to uia@ultrasonics.org subject: Member News

“And the hand just rearranges”

Dear UIA member,

This column is dedicated to you. You are keen on science and technology. You worked hard in school, and spent more time there than most of your colleagues. You have attempted to carefully construct your career, but have been forced to adapt to shifting underlying technology and to the high-amplitude oscillations of the marketplace.

You are a recognized leader in ultrasound. You enjoy seeing your ideas become real products. These products help society and gather income. You know more about some important subjects than anyone on the planet, and you enjoy traveling around the world as the expert on these subjects. Sometimes selling your ideas to

your business associates at home is more difficult than selling your ideas abroad.

You are hoping to capitalize on the market recovery. Your plan is to have some new ideas, technologies, and products in the pipeline, but it is difficult to find the resources to properly prepare. Yet you persist, frustrated at the pace of your progress, but quietly pleased with your cleverness.

You think that perhaps the above assessment is too vague, so I offer more specifics. You originally saw the computer as an input-data, process, output-data device. You now see it as your primary source of information. You embrace email, but find little of interest in other social networking aspects such as twittering and

facebooking. You know your way around an oscilloscope. You secretly wish that the high frequency digital scopes were as intuitive to use as the old analog scopes. With each passing year, you rely more on intuition and less on reference to textbooks or first principal derivations. FFTs are second nature to you. Many times over, your original instinct has proven true, that the frequency/time domain duality as applied to wave phenomena is a rich intellectual field. If only it made you monetarily rich! At least you have been able to provide handsomely for your family.

{With thanks to Al Stewart and Scott Adams}

Robert Muratore, Ph.D.

Outstanding Product Award Competition

The 2009 UIA Outstanding Product Award was presented to the National Physical Laboratory, UK, for their development of the cavitation sensor and Cavimeter, bringing to the marketplace a new measurement capability for high power ultrasonic systems.

This award is just the latest of product awards presented by the UIA over the years. This program offers companies the opportunity to feature their

ultrasonic product throughout the ultrasonic community.

This year's program information is found on pages 8 and entry form on page 9. Two categories are available this year: **Outstanding product using ultrasonic energy** and **Outstanding application for existing ultrasonic product.**

The winning entries will be recognized during the 2010 UIA Symposium in Cambridge/

Boston April 2010.

Start thinking now about which product or application your organization can submit for this prestigious award.

Guided tour of MIT and dinner

Celebrate your Tuesday evening in Boston with his evening you will have an up-close and personal tour of the Massachusetts Institute of Technology. The inventions and discoveries sprouting from this university and the alumni coming from it affect each and every one of our lives, each and every day we live! Truly amazing!

Joost Bonsen will be your MIT host. Bonsen helped start several clubs and courses at MIT, and helped author a study on the impact of MIT start-ups on the global economy. He is a central node in the MIT network; the guy who can make the connection you need. He will lead you on an insider's tour of the MIT campus, pointing out discoveries and inventions that have happened, what research themes are emerging today and what famous companies have "spun out" of MIT's intensely innovative atmos-

phere. A group with a tag line of "Powering Sound Ideas" will certainly be interested to hear about the 5,000 MIT alumni entrepreneurs, where such startups as iRobot, Analog Devices, Akamai, BOSE, Texas Instruments, and others were started.

Next is dinner at a place of firsts itself as it is the home to the first use of the toothpick in the United States. Charles Foster of Maine imported the toothpicks from South America and promoted the business by hiring Harvard boys to dine at the Union Oyster House and ask for toothpicks.

The Union Oyster house claims itself as America's oldest continuously operating restaurant, open to diners since 1826, Ye Olde Union Oyster House is

wall to wall history...literally. Complete with low ceilings, wooden booths, lobster tanks, and a raw bar (that has existed since it opened), the ambiance of the restaurant is casual and fun. Even John F. Kennedy considered it one of his favorite spots and a booth has been dedicated in his name.

Following dinner you will take an evening stroll accompanied by a professional tour guide that will walk you through historic Faneuil Hall and along the new Rose Kennedy Greenway, ending at the Old State House. This event is **included** in the full symposium registration. But, participation is limited to the first **50** registrations. Be sure to register early to be sure that you're included in this fun event.



Photos courtesy of Eric Schmeidl

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39TH Annual UIA Symposium 12 – 14 April 2010

Royal Sonesta Hotel
Cambridge
Cambridge, MA
USA

UIA Announces Outstanding Product Award

Have you developed a new product that uses ultrasonic energy? Do you have an existing ultrasonic product that has garnered new recognition?

The board of directors of the Ultrasonic Industry Association wants to help gain recognition for outstanding ultrasonic energy products and applications. Here's a way to promote your product or application.

The process is a simple one...

1. Decide which category you want to enter: **Outstanding product using ultrasonic energy** or **Outstanding application for existing ultrasonic product**
2. Complete the entry form and submit to UIA by **31 January 2010**
3. You'll be notified by 28 February, in time to make your plans to attend the 39th UIA Symposium at the Royal Sonesta Hotel, Cambridge, MA.

The fine print...

1. The product / application must be currently marketed.
2. All entry materials submitted to be property of UIA. No materials submitted with the application will be returned.
3. There will be one winner and two runners-up for each category selected.
4. Winners will receive their awards during the symposium at the Royal Sonesta Hotel Cambridge, MA.
5. Applications must be signed by an individual authorized by their company to submit this entry. UIA accepts no responsibility for products or application entries submitted without proper authority.
6. Information on the application may be used in publicity releases to the trade publications or public dissemination without prior notice or additional approval.
7. Winners will receive an award suitable for display.
8. Competition is open to any company, regardless of membership in the UIA.

To submit your application...

Please be sure that you have reviewed your application for complete information, and that the supporting documentation is enclosed.

USPS Address:

UIA
PO Box 2307
Dayton, OH 45401-2307 USA

Courier Address; for UPS, FedEx, etc.:

UIA
11 W Monument Avenue, Suite 510
Dayton, OH 45402 USA

? Call UIA at +1.937.586.3725

 uia@ultrasonics.org

UIA 2010 Outstanding Product & Applications Competition Entry Form

Please complete all sections of this form. With regret, incomplete forms cannot be considered.

Name _____
Job Title _____
Organization _____
Address _____
City State ZIP _____
Country _____
Phone _____ **Fax** _____
E-mail _____
Product or Application Title _____
Category **Product** **Application**

Description *Include a clear, concise session description to be used for evaluation and publicity*

Best Features and Benefits

1 _____
2 _____
3 _____

Why does this product/application deserve to be selected?

Included with this application:

Sales material/specifications **Yes** **No**
Picture **Yes** **No**
Other items (please list) _____

Signature

Your signature denotes that you have been authorized by your company to submit this application.

2010 Call for Papers/Posters

The Ultrasonic Industry Association invites you to submit a 200 word abstract for consideration of presentation or poster on 12 – 14 April at its 39th Annual Symposium in **Cambridge, MA** at the Royal Sonesta Hotel. Plan now to join UIA for this international conference featuring the best of ultrasound from around the world. For more information, please go to <http://www.ultrasonics.org>

Please check the appropriate category and preferred format of your proposed presentation:

Industrial Applications: NDE, Measurements, Cleaning, Atomization, Materials Processing, Effluent Processing, Joining and Fastening, Welding and Cutting, Sonochemistry, Underwater Applications, Remote Sensing, Transducer Design/ Materials.

Medical: Surgical, Therapeutic, HIFU/LIFU, Bioeffects, Tissue Characterization, Bio-Acoustic Microscopy, Transducer Design/Materials

Paper Presentation **Poster Session**

Please print clearly

Presentation Title _____

Authors _____

Presenters _____

Main Contact Name _____

Address _____

City _____

State/Province _____

Postal code _____

Phone _____

Fax _____

E-mail _____

Deadline: 31 August 2009

Important Information: Papers will be no longer than 25 minutes; final abstracts must be submitted via e-mail or disc and bio-sketches and **full papers** must be submitted to the UIA office no later than **15 February 2010**. The session chair will contact you directly to discuss your proposed presentation. **Accepted presenters receive a discounted registration fee.**

Symposium Chairs

Symposium: Tony Crandall ▲ +1. 801 264.1001 ▲ Fax: +1. 801 264.1051 ▲ tcrandall@moog.com
 Medical Co-Chairs: Dan Cotter ▲ +1. 781 565.1229 ▲ daniel.cotter@Integra-ls.com
 Mark Schaffer ▲ +1. 212 641.4909 ▲ +1 215.641.9254 ▲ marks@sonictech.com
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 Poster Chair: Jay Sheehan ▲ +1. 781 799.2059 ▲ james_sheehan@comcast.net

Please submit this form (preferably electronically) or via fax to:

**Ultrasonic Industry Association ☎ PO Box 2307 ☎ Dayton, OH 45401-2307 ☎ USA
 Voice +1.937.586.3725 ☎ Fax +1.937.586.3699 ☎ E-mail uia@ultrasonics.org ☎ Web www.ultrasonics.org**



39TH Annual UIA Symposium 12-14 April 2010

Royal Sonesta Hotel
Cambridge

Cambridge, MA USA

Graduate Research Award Deadline 31 January 2010

The Ultrasonic Industry Association (UIA) is pleased to announce its Graduate Research Award will be presented at the 39th UIA Symposium at the Royal Sonesta Hotel Cambridge. This Graduate Research Award recognizes excellence in graduate studies in the science and technologies of interest to the Ultrasonic Industry Association.

The award consists of a **\$1,000 cash prize and commemorative plaque.**

Eligibility

- ≥ Applicant must be a full-time graduate student in an academic institution.
- ≥ Applicant research topic must be in the field of ultrasonic applications (e.g. cleaning, sonochemistry, welding, medical, etc.)
- ≥ Applicant must be working on a research dissertation at the MS or PhD level.

How to Enter

Send the following information to UIA via email: uia@ultrasonics.org

- ≥ Title page which includes:
 1. Your name
 2. Topic or Title of Paper
 3. Complete mailing address
 4. Telephone, fax and e-mail information
- ≥ Complete copy of paper, which should be based on your thesis work
- ≥ Information sheet to include the course of study, school, advisor, sponsor, years in graduate school, papers presented, etc (maximum 3 pages)
- ≥ Official university transcript or letter of support from Department Chair
- ≥ Other supporting information (maximum 5 pages)

Criteria

The criteria for evaluating the Graduate Research Award will be based on several factors, including whether the research was hypothesis-driven, the supportive preliminary data, and the simulation and/or experimental test results. An assessment will be made as to the general impact of the research on the medical or industrial field - whether the results of the research improved the visualization and understanding of a specific problem or have the potential to lead to a larger-scale research project.

Announcement

The award recipient will be notified by 20 February 2010. The award will be made at the 39th UIA Annual Symposium at the Royal Sonesta Hotel Cambridge during the symposium, 12 - 14 April 2010. The recipient will be invited to present his/her paper at the symposium. The winner may also invite up to two significant family members.

Send applications to: **Ultrasonic Industry Association**
11 W Monument Ave. Ste 510 ≥ Dayton, OH 45402

+1.937.586.3725 uia@ultrasonics.org www.ultrasonics.org