
33rd Annual UIA Symposium
September 21-24, 2003
University Place Conference Center
Indianapolis, Indiana

Dear Colleagues:

This is the last issue of Vibrations before our 33rd Annual Symposium. Please get your Registration forms sent in as soon as possible and make your reservations for the University Place hotel before the deadline. A world class program is planned on many interesting and cutting edge applications of industrial and medical high power ultrasonics. We are hoping for a record attendance and don't want you to miss the opportunity to participate.

We also would like you to consider the advantages of being an exhibitor. The price includes one registration

making it a bargain compared to most shows and will give you the opportunity to present your company products or services to a diverse group of engineering, management, academic researchers and others intimately involved in the ultrasonic field.

Your support will be greatly appreciated as a sponsor or advertiser. Your participation will help defray the cost associated with the symposium and collateral materials. Read the enclosed materials for full details of what you will receive as a sponsor or advertiser.

Hoping to see you in September in Indianapolis, Janet Devine and Ron Staut, Symposium co-chairs.

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President's Message

To UIA Members and Honored Guests,

The lazy, hazy days of summer are upon us and although I am sure we have all been busy with business and personal affairs, some time for thought is always available during these months.

During the past few weeks, I have thought about the emerging technologies in which ultrasound is being employed. In the field of medicine alone, ultrasound energy is poised to create significant breakthroughs in the area of cardiac treatment, drug delivery, gene therapy, battlefield medical care, noninvasive surgery and healing, tissue characterization and tumor visualization. In science, ultrasound is key to several areas of bioresearch and analytical chemistry. In industry, silicone based transducers combined with MEMS, sonochemistry, ultrasonic sensors and solid state transformers promise to revitalize old line technologies. Admittedly, several of these ideas are still in the early stage of development, but nevertheless, the world of ultrasound is expanding, not contracting and the UIA is eager and poised to take part in these exciting new fields. Several of these new technologies have been the subject of papers given at our symposiums and our referral network has enabled researchers to connect with development and marketing companies for successful product design and sale. We should all be open to recommending membership to our friends and colleagues so our scope of service to this field can increase proportionally.


Other thoughts of the month were not forward looking but retrospective. Last month the Board of Directors received and reluctantly accepted the resignation of a Board Member and friend, Alan Broadwin. Alan's business schedule has prevented him from participating at the level to which he was accustomed and therefore he felt it best to step aside for the good of the group. For those who may not know, Alan is a long time member of the organization and has held every officer's post including serving several stints as President. He played a large role in our Association from the 1970's to today. There were several "dark days" for our organization where its future was not at all assured, but Alan's perseverance and dedication to our cause pulled us through. He recruited several current board members into their positions. I have known Alan personally for almost twenty years. I remember his enthusiastic stories about the ultrasound industry and science when I was a young engineer breaking into the field. His love of the industry was as obvious as his technical abilities. He had an enormous influence on the

development and acceptance of the CUSA Ultrasonic Surgical Aspirator as a standard of care device in neurosurgery and gastrointestinal surgery. Even though his current endeavors as a Quality Systems consultant has reduced his time in the ultrasound industry, he has indicated an intention to remain a member and help support the UIA as much as possible. I join with the entire Board in thanking Alan for his significant contribution to our group and in looking forward to our crossing paths again.

Well, enough thinking. Its time for action— make plans to join us in Indianapolis in September. See you there!!

Ron Manna, UIA President

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UIA Symposium at a Glance

PROGRAM GOALS

- To present a world class educational program on timely issues pertaining to the field of high power ultrasound in industry and medicine.
- To provide a forum for discussion and networking among professionals employed or interested in the science and application of ultrasonics.
- To provide a program that will be of mutual benefit to the individuals attending: these attendees will be interested in the cross fertilization of ideas, which is available from divergent applications and research using ultrasonic energy.

CONFERENCE OVERVIEW

Work breaks with refreshments will be provided on Monday and Tuesday morning and afternoon and Wednesday morning. Exhibitor Booths will be open in the mornings, during breaks, and during the Wine and Cheese Reception.

Sunday, September 21

1:00 pm – 5:00 pm	Exhibitor Booth Set Up
1:00 pm – 5:00 pm	Sign in and Late Registration
5:00 pm – 7:00 pm	UIA Board Meeting

Monday, September 22

7:00 am – 8:00 am	Late Registration and Continental Breakfast
8:00 am – 12:00 pm	Industrial Applications for Ultrasound Chair: Jeff Frantz, Branson Ultrasonics
12:00 pm – 1:00 pm	Buffet Lunch, Graduate Research Award Ceremony, and Paper Presentation
1:00 pm – 5:00 pm	High Power Ultrasound in Industry Chair: Tom Kirkland, Dukane Intelligent Assembly Solutions
5:30 pm – 6:30 pm	Wine and Cheese Reception

Tuesday, September 23

7:00 am – 8:00 am	Late Registration and Continental Breakfast
8:00 am – 12:00 pm	Sonochemistry Chair: Ken Suslick, University of Illinois at Urbana-Champaign
12:00 pm – 1:00 pm	Buffet Lunch with Board Member Nominations and Voting
1:00 pm – 5:00 pm	Tours of a piezoelectric manufacturing facility and medical facilities of Indiana University

Wednesday, September 24

7:00 am – 8:00 am	Late Registration and Continental Breakfast
8:00 am – 12:00 pm	Medical Applications of Ultrasound Chairs: Naren Sanghvi and Mike Phillips, Focus Surgery
12:00 pm – 1:00 pm	Bistro Lunch
1:00 pm – 2:30 pm	Board Meeting

Symposium Co-Chairs: Janet Devine, Sonobond Ultrasonics, and Ron Staut, APC International

UIA 33rd Annual Symposium Registration Form

Please print and complete all information. This information will be printed in the registration listing and on your name badge.

Name (circle one) Dr./Mr./Mrs./Ms. _____

Nickname _____ Title _____

Organization _____

Address _____

City _____ State _____ Zip _____

Country _____

Phone _____ Fax _____

E-mail _____

Member of (please check all that apply) UIA UTAG USS ASA EWI IEEE/UFFC

Do you need UIA Membership Information? Yes, send me more information (or sign up at www.ultrasonics.org).

Please list your job sector (i.e., industry, medical device, education) _____

Please list your area(s) of interest (i.e., laboratory, materials, sensing, etc.) _____

Please list any of your credentials _____

Registration Fees for UIA Symposium

	Full Conference	Two Days Only
UIA Member	<input type="checkbox"/> US \$495	<input type="checkbox"/> US \$395
Nonmember	<input type="checkbox"/> US \$530*	<input type="checkbox"/> US \$430*
Retiree	<input type="checkbox"/> US \$430	<input type="checkbox"/> US \$430
Presenter	<input type="checkbox"/> US \$430	<input type="checkbox"/> US \$430
Student	<input type="checkbox"/> US \$275	<input type="checkbox"/> US \$100 per day
Student Presenter	<input type="checkbox"/> US \$75 for day of presentation	
One Day Presenter	<input type="checkbox"/> US \$125 for day of presentation	

*Special discounted membership dues will be available to those joining UIA at the Symposium.

I will attend:

- Monday
Industrial Applications
Graduate Research Award Presentation
High Power Application
- Monday Evening
Wine & Cheese Reception*
- Tuesday
Sonochemistry
Business Meeting
Tours
- Wednesday
Medical Applications

*You need not attend Monday's sessions to attend the Reception

I would like to tour:

- Piezoceramic Manufacturing Facility
 - Indiana University Medical Facilities
- Tours will be Tuesday afternoon

Hotel Accommodations

University Place Hotel
850 West Michigan Ave.
Indianapolis, IN 46202
phone: (800) 627-2700 (option #1)
fax: (317) 274-3878

Discounted Guest Rates
\$113/Single
\$128/Double

You are responsible for your own reservations.
Cut-off date for special rates is August 20, 2003.

Complete and mail or fax this form with payment to
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phone: (217) 356-3182; fax: (217) 398-4119
e-mail: uia@ultrasonics.org; web: www.ultrasonics.org

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Ultrasonic Industry Association 33rd Annual Symposium

September 21 - 24 ❖ Indianapolis, IN ❖ University Place Conference Center

Please reserve _____ 8 x 10 booth spaces(s) for the following company:

Please print or type all information

Company _____

Contact Name _____

Address _____

City _____ State _____ Zip _____

Phone _____ Fax _____

E-mail _____

Exhibitors receive one complimentary meeting registration per booth space, please provide the name of the person attending _____

Booth Fee

UIA Member \$750
Nonmember \$850

Deposit

\$100 Deposit Due by August 22, 2003 or
 Balance Due by September 15, 2003

2003 Exhibit Information

Location: University Place Conference Center
An 8' x 10' booth space includes:
6' table, 2 chairs

Tentative Schedule

Setup

Sunday, September 21 1:00 pm- 5:00 pm

Exhibits Open

Monday, September 22 7:00 am-6:30 pm

Tuesday, September 23 7:00 am-5:00 pm

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Changing the World of Medicine and Industry through Ultrasonics

Dear Colleague:

On behalf of the 2003 UIA Conference Committee, I invite you to participate in our Sponsorship & Advertising program. Your needed support, which will be greatly appreciated, will help defray the costs of meeting elements such as breaks, reception, and grants for student/foreign attendance.

SYMPOSIUM GOALS

- To present a world-class educational program on timely issues pertaining to the field of high power industrial and medical ultrasonics.
- To provide a forum for discussion and networking among professionals employed or interested in the science and application of ultrasonics.
- To provide a program that will be of mutual benefit to the individuals attending. These people will be interested in the cross fertilization of ideas that is available from divergent applications and research using ultrasonic energy.

INTENDED AUDIENCE (targeted attendance 200+)

- Regulatory people, standards developers, measurement laboratories, and government groups.
- Teachers, students, researchers from academic institutions.
- Consultants, service providers with ultrasonic expertise.
- Engineering, marketing, management from industrial and medical organizations.

WHY SHOULD YOU PARTICIPATE?

- To provide needed resources for the Ultrasonic Industry Association so that it can grow and provide enhanced member services to you.
- To keep your company name in the minds of your customers, suppliers, and other attendees.
- To encourage the participation of students and users in the activities of the UIA.
- To be recognized as an industry leader.
- To pay for or reduce the symposium expenses.

WHAT WILL YOU RECEIVE AS A SPONSOR?

- Recognition in the On Site Symposium Program, which will have the meeting schedule, abstracts of the presentations, and the list of attendees who have pre-registered.
- A complimentary ad in the program depending on your level of giving.
- A placard with your company name displayed at the event sponsored. (Your specific request for a desired event will be honored if at all possible)
- Verbal acknowledgement of your participation during the annual meeting of your participation
- Platinum and Gold Sponsors will receive one complimentary registration for the Symposium.



Changing the World of Medicine and Industry through Ultrasonics

SPONSORSHIP CATAGORIES

Platinum Sponsors: \$2000 and up in contributions and conference program advertisements

- One complementary registration
- Complementary 1/2-page ad in the program.
- Recognition as previously indicated.

Gold Sponsors: \$1000 to \$1999 in contributions and conference program advertisements

- One Complementary registration
- Complementary 1/4-page ad in the program.
- Recognition as previously indicated.

Silver Sponsors: \$500 to \$999 in contributions and conference program advertisements

- Complementary 1/8-page ad in the program.
- Recognition as previously indicated.

Bronze Sponsors: \$250 to \$499 in contributions and conference program advertisements

- Recognition as previously indicated.

SPONSORSHIP GOALS: Application of monies can be specifically requested by the sponsor or can be given as a non-allocated donation. Multiple companies may share sponsorships for an event.

Reception \$2,500	4 Breaks @ \$1000 each \$4,000
Awards and Annual Meeting Luncheon \$4,000	3 Continental Breakfasts @ \$1000 \$3,000
Closing Luncheon \$3,500	5 Students @ \$100 each \$ 500

ADVERTISING RATES: All ads are black and white and are in the body of the program. Sponsors may add to the size of their complimentary ad by purchasing additional ad space.

Size	Meeting Attendee	Non-Meeting Attendee
Full Page	\$300	\$500
Half Page	\$150	\$250
Quarter Page	\$100	\$200
Eighth Page	\$50	\$100

DEADLINES:

Payment: Due September 1, 2003 (Payment reminders will be sent upon request)
 Make checks payable to the Ultrasonic Industry Association. Credit card payments are accepted (Visa, Mastercard, American Express only). Please provide your IRS identification number.

Ad Copy: Camera-ready artwork due August 26, 2001.

CONTACT INFORMATION: Please send payments, ads, and inquiries to:

UIA 2003 Annual Meeting; 1111 N. Dunlap Ave.; Savoy, IL 61874 USA
 Tel: 217-356-3182 Fax: 217-398-4119 uia@ultrasonics.org; www.ultrasonics.org

Coming Events in the World of Ultrasonics

World Congress on Ultrasonics

September 7-10, 2003, Paris, France

The fifth World Congress on Ultrasonics will focus on cutting-edge technology and invite participants to share current thoughts in fields covering a broad range of topics pertaining to ultrasonics. It will include plenary sessions with invited keynote lectures, oral sessions running in parallel and "special topic" sessions with invited speakers. The purpose of the World Congress on Ultrasonics is to provide an overview of current research in ultrasonics, with an emphasis on bringing young researchers to this exciting area.

The conference will take place in the Biomedical Research Center at the Cordeliers of the University Pierre & Marie Curie, located in the historical Latin Quarter of Paris.

Secrétariat WCU 2003
Laboratoire d'Imagerie Paramétrique
15 rue de l'Ecole de Médecine
75006 Paris France Fax : +33 (0)14 633 5673
e-mail : wcu2003@sfa.asso.fr

Advanced Metrology for Ultrasound in Medicine 2004

April 17-18, 2004, Teddington, UK

AMUM 2004 will be a unique opportunity for the world's ultrasound experts from medicine, industry and academia to

explore the substantial measurement challenges presented by new and future clinical ultrasound equipment. This conference will provide a framework for the development of measurement methods to meet these challenges over the next decade.

The meeting will be held close to the National Physical Laboratory in Teddington, UK. There will be a range of invited keynote speakers, proffered papers and less formal presentations. There will be ample time for open discussion of the shortcomings of current measurement methods when applied to modern ultrasound equipment and how these might be addressed. In addition there will be a poster exhibition, an opportunity for researchers to display new equipment or methods, a commercial exhibition, and a chance to visit the new ultrasonics Laboratories of the NPL.

For more information, see www.amum1004.npl.co.uk, e-mail adam.shaw@npl.co.uk for content information or amum2004@npl.co.uk for general information on the conference and venue.

UIA Spring Medical Conference 2004

The Ultrasonic Industry Association is looking for committee members and volunteers to work on the 2004 Annual Spring Medical Conference. Discussions are underway as to dates and venue, so if you have a keen interest in this area we would like to have your thoughts and involvement. Contact Ron Manna at rmanna@misonix.com or 631-694-9555 x123 to get involved.

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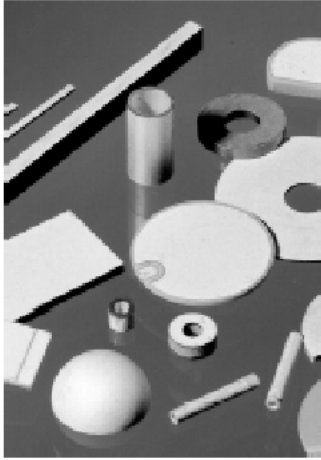
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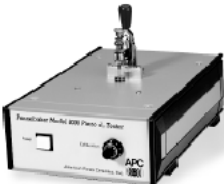
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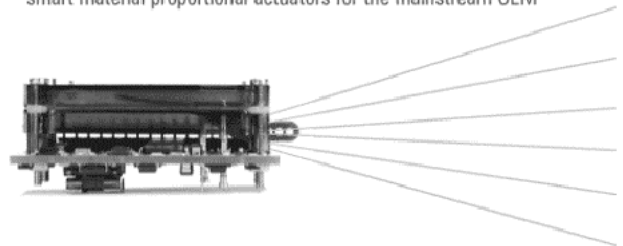


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CAE Sells Cleaning Businesses

CAE and the Cleaning Technologies Group Inc. (CTG) announced in February that they closed a transaction for two of CAE's Cleaning Technologies operations. CAE has sold CAE Ransohoff Inc., of Cincinnati, Ohio and CAE Ultrasonics Inc., of Jamestown, New York, to the former management of these operations for C\$38 million (US\$23.4 million). They also announced in June that they closed a transaction covering the sale of CAE's "CAE Cleaning Technologies PLC" business, of Bradford, England, to CTG at a purchase price of approximately US\$1.0 million. The new business will be renamed "Ransohoff Ltd".

CAE is a global leader in the provision of simulation and control technologies and training solutions for aerospace, defense and marine markets. Headquartered in Canada, CAE employs more than 7,000 people around the world and generates annual revenues in excess of C\$1 billion.

The Cleaning Technologies Group Inc. is a holding company, formed to facilitate these acquisitions by a team of CAE's former Cleaning Technologies management. CTG is headquartered in Cincinnati, Ohio, with Stephen Temple, former President of CAE's Cleaning Technologies, as its CEO.

"CAE's decision to divest presented the Cleaning Technologies management team with a great opportunity," said Stephen Temple. "This transaction gives us the ability to keep the operations and jobs in their current locations, continuing a tradition that began in 1916 with the founding of the Ransohoff business in Cincinnati, Ohio and in 1954 with the founding of the Blackstone Ultrasonics Business in Jamestown, New York. We are committed to maintaining our leadership position within the North American marketplace while continuing to support our valued customers and our significant installed base of equipment". According to Gene Phaneuf, President of the Blackstone~NEY organization; "the joining of these two organizations allows both divisions to maximize state of the art technologies to provide the best possible solution to their customers' cleaning needs. This combination of both organizations brings opportunities for significant growth going forward".

The acquisition of Cleaning Technologies PLC, formerly Tempest and Dibb Ltd, provides The Cleaning Technologies Group Inc. a strategically important foothold into the European marketplace. Founded in 1947, the newly named

Ransohoff Ltd. is one of the UK's leading suppliers of custom engineered cleaning, surface coating and finishing equipment specializing in both spray and ultrasonic technologies.


According to Mr. Temple, "The addition of Ransohoff Ltd. to our group provides us the visibility and presence we require within the European community. Our major customers mandate that we position ourselves to efficiently supply their system needs on a global basis. This is a significant step in satisfying this important strategic objective". Mr. David Holmes, previous Managing Director of CAE Cleaning Technologies PLC, will serve as Managing Director of the new business with the entire employee team retained.

The Cleaning Technologies Group is a world leader in providing innovative process technologies to the precision and industrial manufacturing markets. CTG is comprised of Ransohoff Inc. and Ransohoff Environmental Systems Group, both of Cincinnati, Ohio, Blackstone~NEY Ultrasonics Inc. of Jamestown, New York and now, Ransohoff Ltd. of Bradford, West Yorkshire England. Employing more than 200 people, the Group is the premier provider of environmentally friendly parts-cleaning and waste-minimization equipment and services to the global marketplace.

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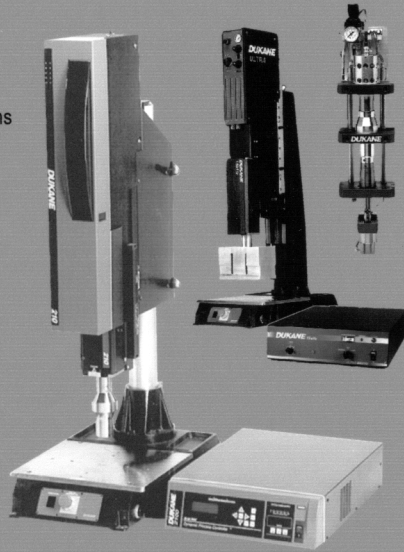
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