

# GLOBAL Gas Turbine News

ATLANTA, GEORGIA USA • ASME INTERNATIONAL GAS TURBINE INSTITUTE

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## Barcelona, Spain to Kick Off ASME TURBO EXPO's Next 50 Years of Service to the Gas Turbine Community

**ASME TURBO EXPO**  
Power for Land, Sea & Air

by Kevin Gaffney, Staff Writer

In a privileged position on the northeastern coast of the Iberian peninsula and the shores of the Mediterranean, Barcelona is the second largest city in Spain in both size and population. It is also the capital of Catalonia, 1 of the 17 Autonomous Communities that make up Spain.

IGTI is in the privileged position of presenting the 51st edition of TURBO EXPO, ASME's gas turbine and aeroengine conference and exposition in this beautiful southern European city for the first time.

Over the last 50 years, ASME TURBO EXPO has become considered the world's premier conference and exposition focused exclusively on international gas turbine technology. "The IGTI ASME Gas Turbine EXPO is perhaps the most technically advanced assembly of users, designers and developers of gas turbine components in the world." "Everyone who is doing groundbreaking work in the gas turbine community comes to the [ASME TURBO] EXPO," says Bill Clark, Director of Advanced Methods Development for CD adapco.

TURBO EXPO's format is unique in that it gives attendees an opportunity to learn, network and see the innovative products and services offered by some of the world's leading gas turbine suppliers. Clark continues, "If you really want to have a visibility in this arena you have to be at the [ASME TURBO] EXPO."

### Keynote Session to Kick-Off Conference

Expounding on the theme "The Global Market and Cooperative Ventures", remarks will be presented by:

**Paul Adams**, Vice President of Engineering, Pratt & Whitney

**Colin Smith**, Director - Engineering & Technology, Rolls-Royce plc

**Alan Wilds**, Director, Product Development, Siemens Industrial Turbomachinery Ltd.

Also joining the panel with some local perspective, will be the Honorable Sr. Josep Maria Rañé i Blasco, Conseller de Treball i Industrial from the Catalanian Ministry of Industry.

The Keynote speakers will discuss how international partnerships and globalization of engineering and manufacturing have impacted both the technological development of new products and the business models required to excel in a global environment. The speakers will also address the role of partnerships and new markets for gas turbines within the emerging industrial nations.

**The only time this distinguished panel will meet to address these issues is live at ASME TURBO EXPO 2006!**

Over the decades, TURBO EXPO has been a major forum for the introduction of countless innovations, including turbfans, combined cycles, coatings, and many others.

Through its world-renowned Technical Congress and uniquely focused Exposition, TURBO EXPO brings together in a single forum the newest developments and the solutions to the toughest problems for those working with gas turbines worldwide.

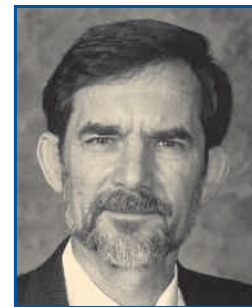
Information on registering for the Keynote session, conference or other event activities can be found on-line at [www.turboexpo.org](http://www.turboexpo.org).

Powered by its ability to meet the ever-changing needs of its markets in power generation, the aero industry and other gas turbine arenas, ASME TURBO EXPO has consistently delivered high quality networking, education and technological exchange opportunities. ASME TURBO EXPO 2006 presented by IGTI will continue that tradition. We look forward to seeing you in Barcelona! \*



## VIEW FROM THE CHAIR

Harold Simmons, Chair, IGTI Board of Directors



**Harold Simmons**

Chair

IGTI Board of Directors

## Do We Still Have Heroes?

**D**o we still have heroes? As a young Design Engineer at Pratt, working on the world's fastest airplane engine, my heroes went from the Lone Ranger to Fred Erick and Augie Scalzo!

Somehow, someone up the line decided that I needed a break or that training money needed to be spent so off to the "Gas Turbine Conference" I went. What a surprise! From an extreme "Loose Lips sink Ships" '60's environment, I was suddenly exposed to an exchange of ideas that were not allowed to be discussed even with wives. Leaving the design room for a week, I dutifully attended every rotor dynamics and jet engine session at the '67 conference. Listening intently, I finally stammered out a question on my favorite subject - it came out gibberish. Fred Erick, a warrior for the other side, masterfully rephrased my query which got an insightful response. Fred was my hero from then on. Fred still contributes to IGTI with enormous energy.

Over the years, Augie Scalzo, bless his soul, freely exposed the turbine's inner secrets; stuff that I thought should be kept close to the vest, yet there it was, bits of insight that could be exploited in my own private education program. Every Turbo Expo/Gas Turbine Conference brought forth new bits of knowledge that could be added to a growing technology portfolio; diverse insights required for advancing a technical career. The new Gas Turbine Users Symposium (GTUS) has opened up a new venue for knowledge growth for the essential end user; and

with it, new opportunities for heroes to emerge as purveyors of experience, services, and equipment.

Even now, I am still challenged and inspired by the new heroes at TURBO EXPO and now GTUS; they are still there, guys like Al, Dave, Terry, Herb, even Ron and many others; some even wear Stetsons and boots.

Will your accomplishment live on like Augie's? Are the young engineers under your guidance taking advantage of the inspiration of heroes? Is your portfolio of technology growing in strength and diversity? The opportunities lie at TURBO EXPO and GTUS; will you be there? \*

## CALENDAR OF EVENTS

**MARCH 5-9, 2006**

**7th European Conference on Turbomachinery**  
Athens, Greece

The scope of the conference covers the scientific and engineering fluid dynamic and thermodynamic problems in the design, development and operation of axial, mixed flow and radial turbomachinery.

**TBD**

**IGTI Marine Committee Meeting**

Indianapolis, Indiana, USA

Contact Jack Halsey for more information.

**MAY 8-11, 2006**

**ASME TURBO EXPO 2006**

CCIB

Barcelona, Spain

IGTI's flagship event comprises a major gas turbine conference and exhibition.

<http://www.turboexpo.org>

**MAY 8-11, 2006**

**Independent Power & Energy Europe**

CCIB

Barcelona, Spain

Co-located with ASME TURBO EXPO, IP&EE was developed to meet the needs of the growing number of independent, private, distributed power and energy users throughout Europe, presenting an industry showcase at a dedicated venue.

**JUNE 17-22, 2006**

**ASME Summer Annual Meeting**

San Francisco Hilton

San Francisco California, United States

Contact: Melissa Torres, [TorresM@asme.org](mailto:TorresM@asme.org)

**SEPTEMBER 25-28, 2006**

**35th Turbomachinery Symposium**

George R. Brown Convention Center

Houston, Texas, USA

Featuring a gas turbine technology conference track presented by IGTI.

<http://turbolab.tamu.edu>

**OCTOBER 11-12, 2006**

**The Future of Gas Turbine Technology**

Châtelain All Suite Hotel

Brussels, Belgium

Organised by ETN with the support of CAME-GT.

<http://www.eu-gasturbine.org>

**NOVEMBER 28-30, 2006**

**ASME Gas Turbine Users Symposium 2006**

Co-located with Power-Gen International

Orange County Convention Center

Orlando, Florida, USA

Intended for gas turbine users/operators, knowledge providers, OEMS, project developers, third-party providers and others in the gas turbine

community, GTUS 2006 will offer ideas and practical solutions for gas turbine operating challenges.

<http://igti.asme.org>

**MAY 14-17, 2007**

**ASME TURBO EXPO 2007**

Palais des Congres

Montreal, Canada

IGTI's flagship event comprises a major gas turbine conference and exhibition.

<http://www.turboexpo.org>

**ASME Scholarship Online Application**

Scholarship Deadlines:

February 1, 2006 - March 15, 2006

Nearly \$100,000 in academic scholarships are awarded annually to ASME Student Members worldwide. Applications for the 2006-07 academic year will be accepted online (only) from February 1 through March 15, 2006. All applicants will be notified of results between June 15 and June 30, 2006.

Event hosted by: Center for Education

Contact: Maisha Phillips, [PhillipsM@asme.org](mailto:PhillipsM@asme.org)

For more info: <http://www.asme.org/Education/FinancialAid/Scholarships/Scholarships.cfm>



# 2005 GTUS in Las Vegas Builds on Orlando Success

by John P. Platt, Jr., GTUS Chair, 2004-2006

Combustion turbine maintenance was clearly a fundamental focus of attendees at the first annual, Gas Turbine Users Symposium (GTUS) in 2004. This emphasis continued in Las Vegas in December 2005.

Over 200 registrants, representing 20 countries worldwide, had a varied selection of major user topics from which to choose, organized under four primary tracks: Build/Buy It, (Ab)Use It, Fix it, and Don't Make A Mess With It. Expert, influential leaders of the gas turbine user community offered an impressive array of panel sessions and tutorials, addressing day-to-day challenges confronting both hands-on gas turbine operators and management-level decision-makers.

Evaluations by attendees gave the conference sessions and presentations high scores for selected topics and content value. GTUS 2005 session details remain available on line at <http://www.asmeconferences.org/GTUS05/>.

The 2005 edition of GTUS continued as a strong conference, independent of TURBO EXPO, IGTI's flagship event for gas turbine technology and applications. Originating as a component of TURBO EXPO in 1994, GTUS is designed to offer educational and networking opportunities for those who operate, maintain, and make purchasing decisions about gas turbines. To serve the needs of the gas turbine user community more effectively, IGTI launched GTUS as a separate conference in 2004, co-locating with PennWell's popular trade show, Power-Gen International.

Four high-quality workshops preceded the main program, offering focused study on Combined Cycle Power Plants, Heat Rate Awareness for Combined Cycles, Combustion Humming in Gas Turbine Based Power

Plants, and Gas Turbine Repair & Metallurgy Techniques. These short courses are among a variety of products and services offered by IGTI on a continuing basis to add greater technical depth and learning opportunities for gas turbine professionals.

A collection of presentations from the 2006 GTUS are available for purchase on CD ROM. The presentations from two of the workshops - Combustion Humming in Gas Turbine Based Power Plants, and Gas Turbine Repair & Metallurgy Techniques - are also offered on CD ROM.

Following a well-attended and spirited networking session, plans are already underway for GTUS 2006 next November in Orlando. Development of the GTUS 2006 program will be led by the GTUS 2006 Steering Committee:

- Chair: Patrick Campbell, Alliance Pipeline
- Co-Chair Bill Couch, El Paso Pipeline Company
- Henry Bernstein, Gas Turbine Materials Associates
- Andrew Bromley, Turbotect
- N.S. Cheruvu, Southwest Research Institute
- Hans van Esch, TE Services
- Ashok Koul, Life Prediction Technologies Inc.
- Cyrus Meher-Homji, Bechtel
- Terry Morgan, Terry Morgan & Associates
- Ron Natole, Natole Turbine Enterprises
- John Platt, BP Exploration & Production Technology Group
- Harold Simmons, Southwest Research Institute
- Bulent Turan, PECO

See the Call for Sessions below for guidelines in submitting a session proposal for consideration. \*

## Call for Sessions

ASME Gas Turbine Users Symposium 2006  
Chair: Patrick Campbell, Alliance Pipeline  
November 28-30, 2006  
Orlando, Florida, USA  
Co-Located with Power-Gen International

The ASME International Gas Turbine Institute is now accepting proposals for sessions to be offered during the 3rd annual Gas Turbine Users Symposium (GTUS).

The conference program will consist of multiple concurrent panel, case studies, tutorial and discussion sessions.

Proposed sessions should address the specific needs and interests of individuals who operate, troubleshoot and maintain combustion turbines, and for those who provide products and services to users. Possible tracks along which session topics may be developed include:

- \* Buy It
- \* Build It
- \* (Ab)Use It
- \* Fix It

Other track(s) will be considered either as an alternative or an addition to these if sufficient developer and user interest is indicated.

### Please submit session proposals by email to [igtiprogram@asme.org](mailto:igtiprogram@asme.org) in the following format:

Subject of Email: GTUS06 Session Proposal

Include the following in the body of the email:

**Primary Contact/Session organizer, include:**

- Name
- Company
- Phone Number
- Job Title
- Complete Mailing Address
- Email Address

**Session Topic:** Enter Tentative Session Title

**Session Type:** Enter only ONE session type:

- Panel
- Tutorial
- Case Studies
- Discussion

**Conference Track:** Enter only ONE conference track:

- Buy It (Including but not limited to applicable codes, standards & regulations; contractual terms & conditions, new & upgraded equipment.)
- Build It (Including but not limited to ease of build, method of build, operations & maintenance requirements, future facilities)
- (Ab)Use It (Including but not limited to long term service agreements, maintenance agreements, operating limitations)
- Fix It (Including but not limited to maintenance techniques, reliability/availability increases, reliability centered maintenance)
- Other (Specify)

**Session Description, include:**

- How this session will address the needs and interests of gas turbine users
- What type of companies will be asked to provide presenters for the session
- A list of several potential presentation topics or discussion points

# JOURNAL OF TURBOMACHINERY



## The New Journal Appeal Process

David C. Wisler, Editor

**A**t the committee meetings in Reno, I asked the chairs of the Turbomachinery, Heat Transfer and Structures and Dynamics Committees to reach consensus and advise me on how I could improve the appeal process for authors who receive “no-Journal-publication recommendations” made for TURBO EXPO Conference-reviewed papers. These three committees are the primary committees submitting papers to the Journal of Turbomachinery.

The three committees gathered a group of senior leaders and together with all of my associate editors, we formulated a new appeal process for the Journal of Turbomachinery as summarized below for two classifications of papers.

**A.** Papers originally reviewed during the TURBO EXPO Conference review process and not recommended for publication in the Journal. Authors wanting to appeal this “no-publish” decision must follow the instructions given in Steps 1-3 below. Before requesting an appeal, authors must: (1) make sufficient changes to the paper to justify a re-review and/or (2) provide a convincing explanation that the original review process was flawed. If this is not done, an appeal will not be considered.

### 1. Authors will revise their paper to bring it up to Journal standards.

The author will mark these revisions either by yellow highlighting or underlining. Authors may challenge reviewer-recommended changes or reviews they consider flawed, but they must explain and justify in writing such claims as:

- Reviewer incompetence or bias
- Rejection without an explanation of why the paper was rejected
- Reviewer missed the point, weak review, no suggestions to improve

### 2. Authors will construct a PDF file that contains:

- (a) the revised complete paper as described in item 1 above, followed by
- (b) a brief statement by the author about what he/she has done to bring the paper up to Journal standards (why the paper is archival), followed by
- (c) if appropriate, author justification for challenging the reviews or reviewer competence or for claiming bias followed by
- (d) the complete original reviews including reviewer comments.

### 3. Authors will upload this PDF file as a paper into the ASME Journal Tool at <http://journaltool.asme.org/> with a note under the “comments” section that this is an appeal paper.

I will then examine the PDF file and direct the paper to an Associate Editor (AE) who will conduct the re-review process. The choice of reviewer is at the discretion of the AE. *The AE may:*

- use some or all of the original reviewers if the AE concludes that the reviewers are expert and the reviews were fair, complete and clear,
- use new reviewers if the author makes a good case that the original review or reviewer(s) was poor or if the AE deems it appropriate,
- consult with the Editor on the matter if necessary.

The AE will make a “publish” or “no publish” recommendation to the Editor, who will make the final decision after reviewing everything. The Editor’s decision is final and cannot be appealed.

**B.** Papers submitted directly to the Journal where the Associate Editors of the Journal conduct a review.

The Editor and Associate Editors (AE) conduct the reviews of papers submitted directly to the Journal. The AE selects three reviewers and works with the authors to improve the paper. Based on the reviewers’ and AE’s assessment, the AE makes a recommendation about the paper to the Editor. The Editor makes the final decision either to publish or not publish the paper. There is no appeal of the Editor’s decisions. \*

David C. Wisler, Editor • Journal of Turbomachinery • [dave.wisler@ae.gtc.com](mailto:dave.wisler@ae.gtc.com)

## BOOK NEWS

Edward M. Greitzer

New Book Features Gas Turbine & Turbomachinery Fluid Dynamics  
*Internal Flow: Concepts and Application* is a recent book that focuses on the internal flow situation encountered in turbomachinery, gas turbine engines, and other fluid machinery and propulsion systems. The book was published by Cambridge University Press in 2004 and is authored by E.M. Greitzer (former Chair, Turbomachinery Committee and IGTI Board of Directors, and 2005 R. Tom Sawyer Award Recipient), C.S. Tan, and M.B. Graf. It is aimed at students as well as practicing engineers. The text is unique in coverage of topics, many of which are taken from the experience of the authors related to issues encountered in the gas turbine industry, and in the rigorous linkage between fluid dynamic principles and their applications to problems of high technological interest. The book is also written with the view that computational procedures for three-dimensional steady and unsteady flow are now common tools in modern gas turbine engineering. The concepts presented enable enhanced interpretation and use of such computational procedures and of experimental results. For more information or to order a copy, visit [www.cambridge.org](http://www.cambridge.org) \*

## Interview

### MIKE IRELAND

Managing Director of IGTI



The American Society of Mechanical Engineers (ASME) has named Michael S. Ireland as Managing Director of the Society's International Gas Turbine Institute (IGTI).

Ireland will be responsible for daily operation of the Atlanta-based IGTI, a technical institute of ASME dedicated to supporting the exchange and development of information to enhance the design, application, manufacture and maintenance of gas turbines and related equipment and technology.

"We are pleased to have Mike assume this important position at IGTI. His years of experience in association management and industry will provide the leadership and direction we need to maintain IGTI's role as a premier resource for members of the international gas turbine community," said Virgil Carter, Executive Director of ASME.

Prior to joining IGTI, Ireland served as Executive Director for the Association of Facilities Engineering (AFE), an organization based in Cincinnati that provides resources for plant and facilities engineers and operations and maintenance professionals. Under his direction, AFE experienced revitalization in both membership and revenues, while establishing strategic partnerships and coalitions with key industry groups.

Ireland also served as Executive Vice President of the National Environmental Balancing Bureau (NEBB), Senior Director of Education and Training at the American Traffic Safety Services Association (Fredericksburg, Va.), and provided management consulting services as a senior associate at Bergstralh-Shaw-Newman. He has a BA in Industrial Education and Communications from Brigham Young University.

GGTN sat down with Ireland to get a feel for his thoughts on where IGTI is and where it's going.

**GGTN:** Welcome to IGTI. What do you see as your role in helping IGTI succeed?

**Ireland:** In a nutshell, my role is to work with volunteer leaders and staff to identify key issues facing the GT community and to help find solutions that improve the industry as a whole and also provide professional development opportunities for individual members. IGTI and its staff should be providing the tools and opportunities for IGTI to meet its overall vision, mission and objectives.

**GGTN:** How do you see IGTI meeting the needs of the industry?

**Ireland:** IGTI is an Institute of ASME, which is a Society of and for Mechanical Engineers. IGTI's

sphere of influence obviously extends beyond the traditional mechanical engineer. Still, ASME members are our primary customers. And the best measure of our success is the number of people that join and renew their memberships. Members and their companies need to see a Return on Investment for their dues dollar and for the time they commit. Traditionally, societies, associations and other non-profit organizations provide education, information, networking and advocacy. I believe the historical rationale for belonging and participating in a society or association haven't changed that much, but the methods and timing of delivering those services have changed dramatically. And there is an expectation for quick and easy access to value-added services. IGTI must incorporate current and emerging technologies that will allow all members of our community to network, access and share information on demand, and develop their professions through education. We may also explore methods of advancing and advocating the industry to government and also as a career choice for young engineers.

We've started down that road with programs like our Gas Turbine Users Symposium (GTUS), and ASME has invaluable resources such as its online Communities of Practice. But these are just barely scratching the surface of their potential.

**GGTN:** So, what are the next steps?

**Ireland:** We certainly will continue with our premier event: TURBO EXPO. We will look at ways to improve the experience for attendees and exhibitors and how it may better meet the needs of additional communities. Ultimately, it needs to be seen as THE event for all segments of the GT industry worldwide.

And beyond TURBO EXPO, we need to investigate expanding the number and quality of educational and credentialing programs and the methods we use to deliver them.

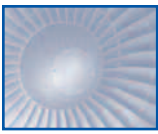
We will take a long hard look at our web tools and how we can better utilize new and emerging technology to provide information sharing and networking. If we are to meet our mission, we must be seen as the clearinghouse of GT information. And identifying, compiling, and storing (or pointing to) that information will be a huge task.

Thankfully, we are not starting from scratch. We have a number of strengths to rely upon. We have a talented and experienced staff. We have strong ties to ASME and their wealth of resources. We have dedicated and knowledgeable volunteers on our Board and Committees. We have accumulated an incredible amount of technical and historical GT-related information through the years. And finally, we have members of the community that care about their profession and industry and want to be actively involved in seeing success in both.

**GGTN:** Any last thoughts?

**Ireland:** Sure. First and foremost, this isn't my organization. This is yours. I'm here to work with our volunteer leaders and staff to ensure we meet your needs. And to meet them, we have to know what they are. We'll utilize surveys, focus groups and other means to constantly measure how we are doing. But don't wait for me to ask. I welcome and encourage open communication. If you have thoughts, comments, complaints (or even occasional praise), please let me know at [IrelandM@asme.org](mailto:IrelandM@asme.org). And finally, most of all, remember that what you get out of IGTI as a society is in direct proportion to what you put in. As we continue to provide more avenues, please continue to (or begin to) participate!

*To see the full interview GGTN conducted with Ireland or to pose your own question for Mike, visit the IGTI Web site at <http://igti.asme.org>. \**



## **New ASTM International Test Methods for Oil and Fuel Analysis**

Committee D-2 on Petroleum Products and Lubricants, a task group within the American Society for Testing and Materials (ASTM International), has developed new test methods to determine wear metals and contaminants in used lubricating fluids and fuels by rotating disc electrode (RDE) atomic emission spectroscopy. ASTM recently approved the two new test methods, one for used lubricants and the other for gas turbine and diesel engine fuels.

For more information contact Daniel Anderson, Spectro Incorporated, 160 Ayer Road Littleton, MA 01460-1103 U.S.A.

Tel. (978) 486-0123 • Fax. (978) 486-0030 • sales@SpectroInc.com

## **Direct Drive Systems Pipeline Demonstrator Program**

Beginning in February and running through April of 2006, Direct Drive Systems will begin a Pipeline Demonstrator Program at their headquarters in Southern California. Direct Drive Systems (DDS) develops and manufactures turn-key solutions and major components for variable-speed, multi-megawatt drives using solutions and major components for variable-speed, multi-megawatt drives using proprietary and major components for variable-speed, multi-megawatt drives using proprietary permanent magnet rotor and magnetic bearing technologies. The Pipeline Demonstrator program will showcase Direct Drive Systems' high speed motor/generator technology and will feature the "Frame 2" machine and power electronics which is capable of productions 2.4 MW @ 22,500 RPM. One of the Frame 2's will be used as a motor and will be directly coupled to another Frame 2 that will act as the generator, there is no gearbox needed on DDS machines. This program will be held at their Cerritos, California facility and all interested parties are invited to see this innovative technology in action.

Contact Micheal Baker @ 713-305-8958 for further details and to schedule your visit.

## **RRC's SPG DATA Fan Blade Inspection System GIVES AN EDGE IN MEASUREMENT TECHNOLOGY OVER THE COMPETITION**

We are proud to announce that our Blade Inspection System has been operating since August 2005 at Rolls Royce Fan Centre of excellence in Montreal, Quebec. The System is physically located in fan blade inspection area, offering expansion opportunity with multiple inspection stations connected to a central server. The system is also connected to a RRC database to keep in archive all the blades data measures, for future reference at next shop visit.

According to Mrs. Helene Pepin, Director of Engineering, Technology & Lab at RRC Montreal, "...advantage of SPG DATA Inspection System is that it's compact, user friendly, precise and rapid to use, low maintenance and less costly than a coordinate measuring machine (CMM) for use on Fan Blades. Compared to conventional measuring methods, inspection time is reduced by half." As the next step, RRC is planning to use SPG DATA technology for other airfoil repair measurement applications, including the surface damage measurements (corrosion, pitting depth, dents, scratches, etc).

For more details, please contact us at engineering@spgdata3d.com

## **Ad Technology's 3D Transonic Viscous Inverse Design Code**

TURBOdesign-2 a fully 3D Transonic Viscous Inverse Design Code developed for application to transonic axial fans, compressors and turbines. TURBOdesign-2 has been developed mainly for the design of turbomachinery components such as transonic fans where shock and boundary layer interaction effects are significant. The code was developed as part of an international consortium involving 6 major Aero-Engine and Gas Turbine manufacturers. The code was recently released commercially after a long period of testing and validation.

For arranging demonstrations of this unique turbomachinery design code or for information on a trial license for evaluation please contact us at info@adtechnology.co.uk or visit our website <http://www.adtechnology.co.uk>.

## **Pointwise Solid Modeling Now Available with Release of Gridgen V15.09**

**MODELS AND QUILTS LET ANALYSTS WORK WITH ENGINEERING TOPOLOGY**

Pointwise announces the latest release of their CFD meshing software, Gridgen Version 15.09, featuring the addition of solid modeling and solid meshing.

Solid meshing, the ability to import, assemble, and mesh solid models in the CAD data, complements Gridgen's long-used fault tolerant meshing. Both approaches provide the analyst with tools for handling sloppy CAD geometry. Fault tolerant meshing avoids the issue of CAD repair by directly "healing" the mesh over gaps and overlaps through computations of proximity and adjacency. Contact Heather McCoy, 817-377-2807, news@pointwise.com 213 South Jennings Avenue Fort Worth, Texas 76104-1107 Toll-free 888-GRIDGEN • Tel (817) 377-2807 • Fax (817) 377-2799 gridgen@pointwise.com • www.pointwise.com

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## **Sulzer Metco's New TriplexPro™-200 Plasma Spray Gun**

**DELIVERS UNPRECEDENTED BENEFITS**

Sulzer Metco's latest plasma spray gun, the TriplexPro™-200, is sure to please the many customers who want to control costs in their plasma spray facility, as well as customers who would like to extend the range of their plasma spray applications.

"TriplexPro-200 It is not a 'one size fits all' product concept, but a 'tool kit' consisting of a robust universal gun body, combined with a selection of plug on devices.", says Dave Hawley, Product Line Manager – Equipment for Sulzer Metco.

Sulzer Metco provides a global manufacturing, distribution and service network and caters to aerospace, power generation, automotive and other strategic growth industries.

Sulzer Metco (US) Inc. • Phone (516) 334-1300 Fax (516) 338-2218 • [www.sulzermetco.com](http://www.sulzermetco.com) \*



## In Memoriam John Latcovich

In October 2005, the IGTI community was saddened by the news of the sudden passing of colleague and friend, John Latcovich, Fleet Manager of Rotating Equipment for Hartford Steam Boiler, Hartford, Connecticut.

At the time of his death, John was serving as the Vice Chair of IGTI's Education Technical Committee. Over the years, he was a very active participant in IGTI activities, making valuable contributions to the success of Turbo Expo and the Gas Turbine Users Symposium. He had recently assumed leadership of an Education Committee task force for the development of educational and training courses for IGTI.

John was a graduate of General Motors Institute (B.M.E.) and the University of Michigan (M.S.E.) and was a member of the Phi Gamma Delta fraternity and the Tau Beta Phi Honor Society. He served in the U.S. Navy as a nuclear power engineer under Admiral Rickover and helped manage the maintenance of the Navy's Pacific Fleet submarines.

From 1976 to 1993, John worked at Allison Gas Turbines Division, General Motors, as the Project Manager for CG-47 and DDG-51 where he facilitated the design and installation of gas turbine generators in the Navy's next generation of cruisers and destroyers. From 1993 to 1996, he was a Program Manager at Asea Brown Boveri in Richmond, VA. John became the Fleet Manager of Rotating Equipment for Hartford Steam Boiler in 1996 where he was responsible for conducting failure analysis for various power-generating equipment, risk assessment



John Latcovich with his family at Virginia Tech during graduation week-end in May 2005. (L to R) are John, his children Catherine, Greg and Simon, and his wife Jean.

of new products, and business development for new technologies and risk-based tools.

In 2001 he won the American Society of Mechanical Engineers Hartford Section Distinguished Engineer of the Year Award. Throughout his professional career, he published over 15 academic articles with topics ranging from risk analysis to gas turbine maintenance and efficiency. In addition to being a member of the American Society of Mechanical Engineers, John was a member of the American Institute of Aeronautics and Astronautics, and the American Society of Materials. He was also an active member of St. Mary's Pastoral Council and a volunteer in Junior Achievement where he taught business classes at local high schools.

His wife, Jean; and his children, Simon Latcovich, Catherine Latcovich, and Greg Latcovich survive John. ✨



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### MISSION STATEMENT

The International Gas Turbine Institute of The American Society of Mechanical Engineers is dedicated to supporting the international exchange and development of information to improve the design, application, manufacture, operation and maintenance, and environmental impact of all types of gas turbines, turbomachinery and related equipment.



## New Publications from IGTI on CD ROM:

### **Gas Turbine Users Symposium (GTUS) 2005 Proceedings Combustion Humming in Gas Turbine Based Power Plants Workshop**

Fresh from the 2005 Gas Turbine Users Symposium and captured on CD ROM are panel and tutorial presentations that answered the question, "What do you plan to do with that gas turbine?"

The 2005 symposium once again focused on the range of operation and maintenance challenges faced by gas turbine buyers and users in the power generation and the oil & gas/pipeline sectors. On the CD are the slides, and, for many presentations, the synchronized audio, from recognized authorities as they offer real responses to real operating conditions. Just a sample of the topics addressed include:

- Advanced Gas Turbine Reliability, Successes, Problems and Solutions
- Advanced Thermal Barrier Coating (TBC)
- CT Compressor Washing
- Combustion Turbines - Introductions and Updates
- Root Cause Failure Analysis and Problem Mitigation

If you were not there in person, don't miss this opportunity to gain valuable insights and perspectives from the manufacturers as well as expand your knowledge base for an informed purchase and/or for operating equipment in the real world and/or for correcting problems to keep the machines running.

A great value at \$250 for ASME members/\$300 for non-members.

IGTI offers workshops on a variety of topics to expand learning opportunities and enhance technical expertise for gas turbine professionals. The newest of these to be produced on CD ROM is *Combustion*

*Humming in Gas Turbine Based Power Plants*, as presented by Tim Lieuwen, Professor, School of Aerospace Engineering, Georgia Institute of Technology, Atlanta, GA

This CD comprises the audio and visual presentation from Professor Lieuwen's one-day introduction to combustion instabilities, often referred to as "humming." It begins with an overview of development and field experience with combustion instabilities, and will describe case studies from several DLN combustors development efforts. Background is provided on the mechanisms responsible for the occurrence of combustion-driven oscillations.

If you need to understand why humming occurs and the strategies for taking care of a humming problem, this is a practical publication for you. The CD is now available at \$195 for ASME members and \$235 for non-members.

#### **Other Titles Available:**

Another popular IGTI workshop is Gas Turbine Repair & Metallurgy Techniques, as taught by Lloyd Cooke, Manager Operations, Liburdi Engineering Limited; Warren Miglietti, Principal Engineer, General Electric Corporation; and Paul Lowden, Principal Engineer, Liburdi Engineering Limited. The presentations on the CD from this workshop are for Operations & Maintenance personnel who require an understanding of basic gas turbine metallurgy and repair technology to conduct business with repair shops and make repair vs. replacement parts decisions.

For more information on IGTI's complete line of educational products, visit the ASME Products and Services Catalog on line at <http://catalog.asme.org/> or contact the IGTI office at +1-404-847-0072 or [igti@asme.org](mailto:igti@asme.org). ✨

