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Program
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The American Society of Mechanical Engineers
Canton Alliance Massillon Section News

Editor: Kevin T. Reynolds

September 2004

PLEASE KEEP YOUR E-MAIL ADDRESS CURRENT

Newsletters are sent by e-mail in PDF format to all members with an e-mail address on file. Paper copies are sent by US mail only to those members without an e-mail address on file. Newsletters are also posted on the CAM section website.

Please take a moment to verify your e-mail address and keep it current at the "Members Only" tab at www.asme.org. You will need your member ID for access.

WELCOME Members

to the New Fiscal 2004-2005 Year of the CAM Section Newsletter. We're getting ready for the year at the First Board Meeting in September (see details below). We've got a new roster of committee members, some familiar names and some new. We welcome the new members and hope you'll show your support this year for your local CAM Section of ASME. Note we also have a new ASME logo this year. We've got some tours and Dinner Meetings already brewing for the coming year. Your support and attendance is greatly appreciated at these meetings as we strive to present some of the latest technologies and knowledge in Engineering in the area. If you or your company have some interesting topic that you're willing to share with your fellow CAM colleagues, please contact Krich S. (Chairman) or any Executive Committee Member (at the left).

The American Society of Metals, CAM Section will have a dinner meeting on **September 8, 2004**, and dinner at Loll's Resturant, Canton. Please contact Krich Sawamiphakdi to sign up and for more information.

DINNER MEETING TOPIC:

Cold Drawing of Tubes on a Movable Mandrel

By
Mr. Craig Darragh
The Timken Company

A new process of drawing thin-walled tubes on a movable mandrel produces 1.5 to 2 times higher elongation coefficient in comparison with the conventional drawing methods. The investigation work has made it possible to manufacture precision thin-walled stainless steel tubes at the DNI-VNITI pilot plant through the use of mandrel drawing instead of a lower productive rolling in KhPTR mills. SEE DETAILS NEXT PAGE.

Other Upcoming Events

Inventor Hall of Fame Tour-Lunch

CAM Section Board Meetings

First 2004-2005 MEETING: Tuesday
September 14, 2004
6:00 PM at Bachelli's Italian Villa.

In This Issue

CAM Section News	1
The 'New Faces Of Engineering'	2
ASME Launches 'Communities of Practice'	2
Learn From Nanotechnology Experts	4
Diversity Action Grants Now Available	4
Student Activity Calendar	5

C.A.M. SECTION WEBSITE: <http://sections.asme.org/cam>

ANNOUNCING A JOINT DINNER MEETING WITH ASM:

Cold Drawing of Tubes on a Movable Mandrel

By

**Mr. Craig Darragh
The Timken Company**

A new process of drawing thin-walled tubes on a movable mandrel produces 1.5 to 2 times higher elongation coefficient in comparison with the conventional drawing methods. The investigation was carried out through a series of 2 to 5 dies with the wall reduction in each die at specified distances between the deformation zones and partial deformations distributed among the dies.

Independence of force and deformation parameters has been defined and recommendations on the parameters selection were developed and assessed from the technical and cost efficiency points of view with the aim of introducing the new process at tube drawing plants. Efficiency of these technological schemes has been proven in a number of cases of replacement of cold rolling tubes in KhPT and KhPTR mills in Ukraine. Analytical expressions were derived for deformation of the parameters for the longitudinal reeling of tubes after their mandrel drawing with the use of rollers with a radial pass shape.

The investigation work has made it possible to manufacture precision thin-walled stainless steel tubes at the DNI-VNITI pilot plant through the use of mandrel drawing instead of a lower productive rolling in KhPTR mills.

About the Speaker

Mr. Craig Darragh received a Bachelor of Science Degree in Metallurgical Engineering in 1967 from the University of Cincinnati, Cincinnati, Ohio, and, in 1979, an M.S. in Metallurgy and Materials Science from Case Western Reserve University, Cleveland, Ohio. He began his career at The Timken Company in 1963 as a Cooperative Education Student/Technician. He has subsequently held the position of Application Metallurgist, Production Metallurgist-Steel, Supervisor-Application Metallurgy, Manager-Application Development, Chief Engineer-Application Metallurgy, Product Technologist and is currently Senior Technologist.

Meeting Location: Lolli's Restaurant, Corner of Belpar and Dressler in Aston Park near Belden Village

Schedule: Social period starts at 6:00 pm, Dinner at 6:30 pm and Presentation at 7:30 pm

Dinner reservations: Reservations can be made by contacting Krich Sawamiphakdi (The Timken Company) at (330) 471-2137 or krich.sawamiphakdi@timken.com. Reservation can be made up to 5:00 pm. on September 7, 2004.

Dinner selection: Steak, Chicken Bordelaise, Orange Roughy or Vegetarian.

Dinner prices: Members and Spouses: \$16:00
Nonmembers and Guests: \$18.00
Retirees and Students: \$8:00

Please provide your name, company affiliation and dinner selection when making reservation.

New Faces of Engineering Strives to Recognize Young Talent

The *New Faces of Engineering* strives to promote the accomplishments of young engineers by highlighting their engineering contributions and the resulting impact on society. The campaign is designed to enhance and improve the image of engineering by:

Putting faces to what has often been referred to as “the stealth profession.”

Showing a group of young, diverse and talented engineers, thereby portraying engineering as an exciting profession open to everyone.

Providing both stimulation and incentive for college engineering students to explore the variety of career options available to them with their engineering degrees as well as encouraging high school students to study engineering in college.

Help students understand they are part of a global profession.

This is an opportunity to represent the mechanical engineering profession and ASME as the top individual *New Faces*. The ASME finalist will be featured in a full-page ad in USA TODAY during Engineers Week, February 20-26, 2005. The finalist's photo will be captioned with the engineer's name and ASME affiliation, employer and a brief statement of that individual's accomplishments as they relate to the public welfare.

New Faces provides a unique opportunity to learn from new engineers. EWeek and the ASME staff will interview the top individuals regarding the experiences leading them to select engineering careers, the challenges in making the transition to the work force, and other key experiences that can be used with K-12 and college students.

The top candidates will participate in an e-mail and/or online Question and Answer discussion forum with engineering undergraduates globally at a future date to be determined. Candidates are asked to list languages in which they are fluent.

National Engineers Week will profile the top individuals. The profiles will be posted on the ASME web site, www.asme.org, National Engineers Week web site at www.eweek.org and at www.discoverengineering.org, the EWeek web site for middle school students.

The engineering trade press will be targeted for feature stories on the top individuals. The local media of all the nominees will be targeted to capture general press coverage.

Visit http://www.asme.org/eng_week/ to submit your application by the Oct. 22, 2004 deadline.

Engineers Provide Sustainable Solutions Through International Volunteerism

ASME members around the world have the chance to get involved in real-world engineering projects, gaining exposure and training in internationally responsible and sustainable engineering through ASME's partnership with Engineers Without Borders™ – USA (EWB-USA).

Offering a unique opportunity for professional engineers (active or retired) and engineering students, EWB-USA is a non-profit organization established in 2000 to help developing areas worldwide with their engineering needs. EWB-USA projects may involve the design and construction of water, waste-water, sanitation, energy, and shelter systems. Projects are initiated by, and completed with, contributions and support from the local, host community, which is trained to operate the systems without external assistance. In this way, projects are appropriate and self-sustaining. The projects are conducted by groups of students under the supervision of faculty and professional engineers from partnering engineering firms and professional Societies.

ASME members should contact Diedra Hackley (hackleyd@asme.org) if they are interested in any of the above projects, or would like to propose a project of their own.

ASME Launches ‘Communities of Practice’

Want to talk to your peers about technical matters, career and personal interests? Do you need communicate with your peers without going to a meeting or even leaving your desk?

Now ASME offers you a new tool to communicate, get the information you need and meet others with similar interests and concerns at the new ASME Communities of Practice site.



On the CoP site, you can join a community, suggest a new community, participate in discussions and polls, and post your own message or request to be notified when messages are posted on the community. It's your choice what communities you participate in, and how you choose to participate.

The Communities of Practice pages also allow you to customize your own personal page to include your communities, your own links and calendar and to access an ASME event calendar.

You will need to register the first time that you use the page, and set your preferences for your home page. It only takes a few moments – then you are ready to participate, or just observe the discussions. To visit the site, and test the features for yourself, go to www.cop.asme.org.

DO YOU FEEL LIKE A FISH OUT OF WATER... when it comes to your career?

Join our **eMentoring Community**



Sign-up for a Mentor **TODAY!**

www.asme.org/ementoring
eMentoring

**Learn from Nano Experts
- Network with
Representatives from
Leading Nano
Universities!**

The ASME Nanotechnology Institute will present its 3rd Integrated Nanosystems Conference in Pasadena, California from September 22-24, 2004. Leading-edge discoveries will be presented in the following areas:

Devices and Systems
Nanoscale
Phenomena,
Nanomanufacturing.

A tour of JPL's Microdevices Lab is available on a first-come first-serve basis. Industry and government experts will discuss business/Venture, Health Risk/Environmental, and the role of Government through lively panel sessions. Registration for the conference includes a copy of the proceedings and is \$550 for ASME Members - Students are encouraged to participate at the nominal fee of \$75 for the 3-day forum.

For details, click on:
<http://nano.asme.org/integrated04>

**Partners In Mechanical Engineering
Grants Available**

The Board on Diversity and Outreach is accepting applications for Partners in Mechanical Engineering grants. All ASME Sections are eligible to apply. Grants are made on a first-come, first-served basis.

For more information, go to

<http://www.asme.org/communities/diversities/bdo/partners.html>

Diversity Action Grants Now Available!

The Board on Diversity and Outreach (BDO) will be accepting applications for Diversity Action Grants (DAG) for the 2004-2005 academic year. Encourage the ASME Student Section in your area to apply for these competitive grants. Deadline for applications is Nov. 1, 2004. For more information, go to

<http://www.asme.org/communities/diversities/bdo/dag.html>

Member 2 Member REFERRAL

Refer a friend or colleague to ASME in two simple ways:

Send a personalized email invitation or send us their contact information and ASME will contact them on your behalf. Visit www.asme.org/membershipdrive for complete details.

Make Your Contribution to the FasTrack E-zine Today!

The FasTrack is emailed to early career members (previously known as the young engineer). It provides quick online access to what's new and current in professional & technical resources including highlighting featured member benefits and enhancements, etc. Please see the current FasTrack issue: <http://www.asme.org/youngengineers/fastrack>

The FasTrack e-zine features a special section called "Q&A with Experienced Engineers (Five Career Questions Asked)" and we invite you to share your experience. The idea is to feature an engineer each month responding to the same 5 questions. Among the questions posed are:

When you first started your career, what was the biggest lesson you learned on the job? What is the underlying foundation for career success today? How do you keep up-to-date within your industry? What advice would you give a recent engineering graduate looking for work? Has your involvement in ASME changed or influenced your career path?

If you are interested in contributing, please send your response to all of the above questions to Cheryl Hasan at hasanc@asme.org. Please include your name and job title, as it will be included in the section. The first 5 to respond will receive **THE PARATOOL®**. (PARATOOL® Offer expires Sept. 30, 2004). The PARATOOL, a most comprehensive multi-purpose folding tool chest, over 20 features, an unprecedented combination of capability for its size and low cost. Superior Hand Comfort, Angled Plier Head Capability, More Blade Components, Adjustability.

Student Activity Calendar

September

Sept. 30 [Pressure Vessel & Piping Division](#) Student Paper Competition – abstract due

* Attend your [Regional Student Leadership Seminar](#)

October

Oct. 1 [Renewal](#) deadline for 2004-05 ASME Student Membership.

Oct. 15 [Application deadline](#) for Winter/Spring student loans

Oct. 21 2004-05 [Graduate Teaching Fellowship](#) – application deadline.

Oct. 29-30 Fundamentals of Engineering Exam

* Attend your [Regional Student Leadership Seminar](#)

New Mortgage Benefit for ASME Members!

Wachovia makes the mortgage process easy by providing competitive rates, quick approvals, and accurate closings. Members also receive friendly, personal attention through an ASME-dedicated mortgage team.

For details, visit

<http://www.wachovia.com/misc/0,,507,00.html>

ASME's 125th Anniversary in Full Swing!

Log onto www.asme.org/anniversary for information on events to take place during 2005, as well as historical material and information on how you can get involved.