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2003-2004**

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**College Relations &
Vocational Services**
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Dave Yakubek

Finance & Budget
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**Government Relations/
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History & Heritage
OPEN

Honors & Awards
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Industry Relations
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Member Initiative Sys.
Rick Borowski

**Member Interest /
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Minorities & Women
OPEN

**Newsletter Editor /
Public Relations**
Kathy Grant

Nominating
Bruce Allmon

**Professional
Development**
OPEN

Program
OPEN

Unemployed Members
Marty Nuetzel

The American Society



of Mechanical Engineers

Canton Alliance Massillon Section News

Editor: Kathy Grant

November 2003



C.A.M. SECTION WEBSITE

<http://www.asme.org/sections/cam/index.html>

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.

November Dinner Meeting

Lockheed Martin F-16 Flight Simulators

When: Wednesday, November 5, 2003

Where: 356th Fighter Group restaurant, 4919 Mt. Pleasant Rd., N. Canton

Social Hour: 5:30 p.m.

Cost: \$15 members and guests

Dinner: 6:30 p.m.

\$12 students / \$20 non-members

Presentation: 7:30 p.m.

Entree: Virginia Baked Ham or Vegetable Lasagna with Alfredo Sauce

For reservations by October 29, contact either :

Jason Emperor phone 330.490.5774 email Emperaj@diebold.com or

Kathy Grant phone 330.714.9361 email grantk1@asme.org

See page 2 for more information

Other Upcoming Events

Dec. 13 – Canton Opera Madrigal Dinner

February – Engineers' Week Banquet

January – Ice Skating

March 10 - "Commercially Pure Titanium"

CAM Section Board Meetings

6:00 p.m., Timken Research Conference Room 11
Tentative Schedule, first Tuesday of each month

November 4, 2003

February 3, 2004

December 2, 2003

March 2, 2004

January 6, 2004

April 6, 2004

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Lockheed Martin F-16 Flight Simulator Mission Training Centers

Andrew Gurcak, manager of research engineering at Lockheed Martin Maritime Systems & Sensors in Akron, Ohio, will present their next-generation F-16 flight simulation training system. This new system immerses the "warfighter" into a realistic, integrated environment. The F-16 training system is used for training of new student pilots and combat-qualified pilots from Initial Qualification to multi-combatant, campaign-level Expeditionary Force.

To replicate the 'Jet,' Lockheed Martin has combined a high-fidelity cockpit with F-16 flight dynamics to produce realistic tactile feel, application, operation activation, aircraft handling characteristics, and aerodynamic flight performance. Bringing training ranges, local areas of interest, and potential combat operation areas to the 360-degree visual system, places in front of the pilot a realistic and detailed database of high-resolution, high-fidelity and geospecific topographic and man-made features, targets, and environment.

Mr. Gurcak has led the development of pilot training systems for the F-16 Fighting Falcon, F-15 Eagle, F-22 Raptor and F-35 Joint Strike Fighter aircraft. He joined Lockheed Martin in 1985 after holding management positions at Westinghouse Atomic Power in Pittsburgh on software development projects and instrumentation and control systems for atomic power plants. He has published papers on a number of simulation and training technologies and has earned a bachelor's in mathematics at the Massachusetts Institute of Technology and an MBA at the University of Pittsburgh.

Lockheed Martin Maritime Systems & Sensors also develops and builds missile guidance systems, antisubmarine warfare systems, and lighter-than-air systems. Headquartered in Bethesda, Md., Lockheed Martin employs about 125,000 people worldwide and is principally engaged in the research, design, development, manufacture and integration of advanced technology systems, products and services.

When: *Wednesday, November 5, 2003*

Where: *356th Fighter Group restaurant, 4919 Mt. Pleasant Rd., N. Canton*

Social Hour: *5:30 p.m.*

Dinner: *6:30 p.m.*

Presentation: *7:30 p.m.*

Menu: *Virginia Baked Ham, or Vegetable Lasagna with Alfredo Sauce.*

Side dishes: *Fresh Vegetable Medley, Potatoes Au Gratin, Green beans with Mushrooms.*

Salad: *House Salad Tossed with Honey Mustard Dressing*

For reservations by October 29, contact either :

Jason Emperador phone 330.490.5774 email Emperaj@diebold.com or

Kathy Grant phone 330.714.9361 email grantk1@asme.org

A note from the new Chair of the Unemployed Members Committee

Martin Nuetzel – mlnuetzel@cs.com

I would like to introduce myself to those members of the CAM Section of ASME that may not have met me yet. I am an Engineer with over 25 years of experience designing equipment and working as a Plant and Manufacturing Engineer. After being laid off in across the board staff reductions, plant closures and etc., and moving on, I now find myself unemployed again, except this time I'm older, more experienced, perceived as being more expensive and being less flexible than during my previous job searches. When I noticed that this Committee position was open, I volunteered, as this was an area that I have current experience in.

Help Wanted - I need your help to let me know how we can help each other. I have found a number of resources, and found a lot of others that want to help us (networking) that I can share with you. Some of these are spreadsheets and documents that can easily be e-mailed upon request.

The ASME web site is a place to start for information – www.asme.org/jobs

Top Ten Tips for this Month

1. Get business cards and carry a pen! - I have met countless un-employed professionals without even a simple card with name and contact information on it and no pen for notes. There is debate as to whether these cards should be professionally printed or just simply neatly printed. I use the card stock from the office supply store and print my own using the template in Word, as needed. This has allowed me to customize as needed.
2. Get web access and a "professional" web address. This can be cable or other. Avoid, if possible, using dial-up with your main phone line. If you get up in the morning and start reviewing jobs and sending resumes via e-mail, as frequently requested, you can not be reached for that important call to set up an interview.
3. Polish your resume – A current style is to have a list of key skills (from your various past positions at top, then the employment history).
4. Elevator/30 second Commercial – This is brief capsule of you and what you can do for the audience. This can be a brief elevator ride, a meeting at a professional organization, etc. Practice and polish this. This is your opportunity for future contacts.
5. Network – Professional organizations, previous bosses, church, civic organizations, Chamber of Commerce's (meetings, Business-after-hours, etc), are all good sources of contacts.
6. Use the Government Funded resources, such as Canton's The Employment Center, which have resources, classes, etc. Depending on the exact details of your separation, there can be money available for free retraining, computer classes, etc. They can help review resumes, etc., do practice interviews, etc.
7. Join Job Seekers! There are numerous groups around the area, ranging from a few (two or three) that just get together once a week for coffee, to larger, well organized groups, such as Chagrin Valley (Solon) that has several hundred members, (75 -100 at their twice monthly meetings), a bulletin board, and frequent e-mails of new opportunities.
8. Sign up for all the local Job Bulletin Boards and notifiers – E-mail me for a list.
9. Volunteer – Again a good opportunity to network. Some, such as the United Way, actually pay a "token" amount for "seasonal" work contacting companies (typically the HR dept!).
10. Get to know several recruiters. One thing that you will find out is that there are no rules as to who to work with. I have found several jobs that organizations that had frequently been called "headhunters", or worse, had as apparently exclusive searches. They also had positions that were not on the hiring company's website.

Lots of ideas and several close calls. Unfortunately in job hunting, there is no second place. Let me know how I can help you. Send me an e-mail with ideas – mlnuetzel@cs.com.

2003 ASME International Mechanical Engineering Congress and
Research Development and Design Conference



Don't forget to register for the 2003 ASME International Mechanical Engineering Congress and RD&D Expo!

The 2003 Congress will be held in Washington, D.C. at the Marriott Wardman Park and the Omni Shorham Park hotels.

All technical sessions, registration, publication sales and the RD&D Conference will be held at the Marriott Wardman Park Hotel. All other meetings or events will be held at the Omni hotel. The program overview, registration hours, ticket, travel and hotel information can be found at <http://www.asmeconferences.org/congress03/>

Come Celebrate 100 Years of Flight!

To commemorate the centennial of the Wright Brothers' first flight 100 years ago, ASME will hold a special Plenary Session at this year's Congress at the Marriott Wardman Park hotel on Sunday, Nov. 16 from 5:45 to 7PM.

The session will feature a panel of aviation industry leaders.

A reception will follow the program, at which time an honorary medal will be presented to the descendants of Orville and Wilbur Wright.

For more information, log on to:
www.asme.org/events/flight/mesupp.shtml

Young Engineer Award

Nominate a Young Engineer from your Section

The Old Guard Committee honors ASME members that have made great strides in the engineering profession, community and ASME. Nominate a young engineer in your Section that meets the eligibility requirements.

The ASME member must have continuous membership since becoming an ASME student member and have earned a baccalaureate degree in mechanical engineering between March 1, 1998 and March 1, 2000.

Learn more about the selection criteria and how to nominate, visit the Young Engineers Award website today <http://www.asme.org/cma/og/youngengineer.html>

Young Engineers Forum Sunday, Nov. 16, 2003

Effective Presentations and Communication in the Workplace.

Join the 23rd Young Engineers Forum in Washington D.C.! This special event will deliver four informative presentations and a panel discussion. Don't miss this opportunity to meet our experts and walk away with valuable insights for your career.

REGISTER TODAY! www.asme.org/yef/23/program.html ADVANCE \$25, ON-SITE \$30

This special event is held in conjunction with the 2003 ASME International Mechanical Engineering Congress and RD&D Expo. (Separate registration is required to attend).

'Planned Giving' Seminar

A Planned Giving Seminar will be held on Tuesday, Nov. 18, 5 p.m. in Washington, D.C. It should be attended by anyone interested in making more informed decisions about their financial and estate plans.

Steve Imperato, Vice President of the Community Counseling Service and an expert on planned giving, will be guest speaker. He will discuss a variety of giving vehicles and the benefits associated with them. These include charitable remainder trusts, charitable lead trusts, charitable gift annuities, wills and bequests, and wealth replacement trusts. There will be an opportunity to ask questions and talk one-on-one after the presentation.

The gathering is open to all attendees of the ASME Congress and R&D Expo and to ASME members residing in the Washington, D.C. area.

While reservations are not necessary, they are recommended and can be made by contacting Warren Leonard, ASME Foundation director of development, at leonardw@asme.org. He will also be able to provide the location of the meeting, which will be finalized shortly.

First Meeting of Archimedes Club

The ASME Foundation will host a reception to honor members of the Archimedes Club on Monday, Nov. 17, at the ASME Congress in Washington, D.C. Established as part of the ASME Foundation's new Planned Giving Initiative, the Archimedes Club is open to everyone who makes a planned gift to the Foundation.

At this early date in the Planned Giving program's history, there are already 21 members of the Club. Among those to be recognized are P. J. "Jim" Adam and Carol and Allen Rhodes, who recently informed the Foundation of their gifts at the Silver level.

To understand just how promising this program is for the future of mechanical engineering, the combined legacy of these first 21 members will provide more than \$1.5 million to launch and enhance scholarships, educational programs, grants and awards.

Anyone who makes a planned gift by Nov. 2004, which includes the 21 inaugural donors, will be recognized as a Founding Member of the Archimedes Club.

To learn more, ASME Foundation director of development Warren Leonard invites you to contact him at leonardw@asme.org and visit www.foundation.asme.org.

Grants Available, First-Come, First-Serve

The Board on Diversity and Outreach's Partners in Mechanical Engineering (Partners) Program provides grants to ASME Sections for innovative projects and activities that support collaboration with local sections or chapters of organizations that support women and underrepresented minority groups in engineering. Grants are awarded on a first-come, first-served basis and range from \$500 to \$1,000, depending on the size and scope of the activity.

Applications for Partners grants may be submitted throughout the year. For additional information, go to <http://www.asme.org/communities/diversities/bdo/partners.html>

Student Activity Calendar

- | | |
|------------|--|
| Nov. 1 | Preliminary reports due for Ingersoll-Rand Contest |
| Nov. 1 | Deadline for Diversity Action Grant applications |
| Nov. 16-21 | Congress – Washington, D.C. |
| Nov. 16 | Young Engineers Forum – held at Congress |
| Nov. 16 | Student Design Contest finals held at Congress |
| Nov. 18 | Old Guard Oral Competition finals held at Congress |

2004 ARTHUR L. WILLISTON AWARD CONTEST

THE WILLISTON AWARD IS PRESENTED ANNUALLY BY ASME
TO THE STUDENT ENGINEER OR RECENT GRADUATE WHO AUTHORS THE BEST ACCEPTABLE
PAPER IN THE AREA OF CIVIC SERVICE

TOPIC AREA: The Future Role of Mechanical Engineers in Bioengineering

ASSIGNMENT: The rise in biological applications of engineering has been dramatic, with several of the major biomedical advances of the last decades having a distinctly mechanical engineering base. Indeed some undergraduate engineering programs now include a required course in biology as a first step toward preparing students for careers in which physics and chemistry are not the only basic sciences of importance to engineering applications. Some engineering colleges are forming new departments either in bioengineering, which focuses on the application of engineering principles to the study and control of biological processes, or in biomedical engineering, which applies these processes to improving health and human welfare. A recent study commissioned by ASME entitled "The Convergence of the Life Sciences and Engineering" provides a snapshot of the key forces changing and shaping engineering practice. There is clearly a growing role for mechanical engineers in this shift to engineering that is more biologically centered and the 2004 Williston Paper topic is meant to elicit your views on what this might be.

DEADLINE: Papers must be postmarked by Feb. 15, 2004.

**2003-04 ASME Member-
Get-A-Member Campaign**

Get Recognized for Volunteerism!

Receive a certificate of appreciation when you recommend 2 or more paid new members during the 2003-2004 Member-Get-A-Member (MGAM) campaign signifying your support of the Mechanical Engineering community.

50% of the new paid members' first year dues will fund scholarships for student members.

ASME will contact your colleagues or friends on your behalf, if you email us their contact information to membership@asme.org now through June 30, 2004.

For complete details and to learn more about how to get started visit <http://www.asme.org/membershipdrive>



Big Things Are Happening At ASME!

Attend the ASME Congress keynote address on Monday, Nov. 17 at 5:45pm. This year's keynote session will focus on Homeland Security.

Also, there will be a special announcement that you will not want to miss. For more information on the keynote address, log onto

<http://www.asme.org/pi/pr/2003/070903a.html>