

## Letter from the Chairman – July 2007

**Dear Members:**

Here is what occurred in July:

The June Newsletter was published.

The Executive Committee met on 7/11/07. Issues discussed:

- Draft Tallahassee Section By-Laws, to be finalized at the August Executive Committee meeting.
- The official Tallahassee Section PD Policy, to be adopted at the August Executive Committee meeting.
- Proposed programs for the FY2008 beginning in September 2007.

On 7/13/07 the section was treated to a tour of the Danfoss Turbocor HVAC compressor manufacturing plant.

A program is in planning for August 24, the subject to be The Plasma Torch Waste to Energy Project, by Ben Cowart, of the City of Tallahassee. More information will be forthcoming.

Again, the Executive Committee thanks those who have participated in the programs we have organized.

Your participation is our reward.

**Siddhartha Kamath, PE, Chairman 2007-2008**

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#### **AUGUST 2007 CALENDAR**

Please see the "Meetings" page on the ASME TALLAHASSEE SECTION'S web site:  
<http://sections.asme.org/Tallahassee/>

# TALLAHASSEE SENIOR SECTION

## Tour of Danfoss Turbocor Plant

*By Siddhartha Kamath*

On June 16, 2006, the Tallahassee Section was introduced to the Danfoss Turbocor HVAC compressor by Dan Thatcher, Vice President of Aftermarket Businesses. At the time a new Tallahassee manufacturing facility was under construction, scheduled to open for production in late 2006. The facility is in now full production.

This compressor features a unique small, lubricant-free, high efficiency design.

On 7/13/07 the Tallahassee Section visited the Danfoss Turbocor HVAC compressor manufacturing plant. Hosted by Director of Applications and Product Support Changiz Tolouee, and Training and Applications Support Manager David Johnson, the tour attendance of 18 was treated to a unique experience, and the feedback was very enthusiastic.



## CALENDAR for FRIDAY "BRING A COWORKER TO LUNCH" MEETINGS

*By Ben Cowart*

August 24

Ben Cowart – City of Tallahassee

The Plasma Torch Waste To Energy Project

September 28

Connie Rimes – Kaeser Compressors

Compressor Selection

October 19

Ron King – National Insulation Association  
Importance of Proper Insulation Selection

November 30

Triveni Singh – City of Tallahassee  
Hopkins Unit 2 Repowering

# STUDENT SECTIONS

**FAMU / FSU STUDENT SECTION** – As reported earlier by George Heller of the Student Section, there is little activity this summer, as many of the members are “interning” for the summer.

## **TCC STUDENT ENGINEERING CLUB** – *Information supplied by Doug Jones*

The Club met on Tuesday, June 13 at Noon in SM 260 in the Science/Math Building. With the new fiscal year, the Club’s budget has been cut drastically. Consequently, the membership is initiating fund-raising activities and seeking sponsors. The student leadership of the club has already secured Domino’s as a corporate sponsor – they have agreed to supply the pizza for our monthly meetings. And their support began at this meeting! Also, in the Fall Semester we are scheduling a sequence of fund-raising math workshops each of which will cover common math mistakes.

We also completed our slate of officers for the Fall Semester: Chair: Komlan Amesse; Vice-Chair (and SGA rep.): Miguel Marquina; Secretary: Ann Wolfgang.

The meeting adjourned at 1:30pm so that club members could take part in the Turbocor tour.

My notes of that meeting are at the Club’s blog: <http://engineeringtcc.blogspot.com/2007/07/notes-on-engineering-club-meeting-of.html>

The TCC Engineering Club’s Campus web page is located at [http://www.tcc.fl.edu/about\\_tcc/student\\_affairs/departments/campus\\_life/student\\_activities\\_clubs\\_entertainment/student\\_organizations\\_clubs\\_teams/engineering\\_club](http://www.tcc.fl.edu/about_tcc/student_affairs/departments/campus_life/student_activities_clubs_entertainment/student_organizations_clubs_teams/engineering_club) and our blog, which contains notices of activities and meeting dates, can be directly addressed at <http://engineeringtcc.blogspot.com/>

### **TCC ENGINEERING CLUB** Contacts

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## **EXERPT of REMARKS on TURBOCOR TOUR**

*By Chris Loftis, TCC ASME student member.*

Despite them not having not made a compressor that can put out 150 tons, is as large as a matchbox and weighs less than a pound, the result is still quite impressive. Of course, the main innovations of the compressor are the magnetic bearings. This gives it the advantage of not needing lubrication because the shaft is the only moving part and it doesn't come into contact with anything. Comparing it to comparable compressors, it's also smaller, quieter and more efficient at partial loads than the other ones out there. Pretty much the only disadvantage seemed to be that they couldn't make them fast enough.

# ASME INTERNATIONAL

## GMET: A Boon for Global Business Professionals

Engineers, as well as people in many other professions, don't receive adequate training in business and global operations when they are in school. Researches show that there is an unmet demand for knowledge and skills in global business from companies with global operations.

Globalization affects everyone. Production lines are shipped overseas. Many business activities are located off-shored or outsourced. Products are marketed to hundred of countries and regions. Many engineers have to interact, collaborate, coordinate, or lead teams or work forces thousands of miles away, across cultures, and many time zones. Luckily, Globalization also renders engineers unprecedented opportunities. Now you can help your company break into many new markets, but you need the necessary knowledge and skills to fulfill it.

To help engineers and companies cope with these issues, ASME launched a new global training program – [Global Management of Engineering and Technology](http://www.asme.org/Education/Courses/GMET/Global_Management_Technology.cfm) (GMET), which covers the knowledge and skills you need to take products and services from design or drawing boards to the placement of goods on the shelves of department stores and super markets worldwide. Each GMET course has eight online modules with lecture notes, case studies, reading materials, online quizzes, a course library, and a class forum where trainees can interact with classmates and the trainer, followed by three-day live in-class training by the chief instructor. It suits a wide spectrum of learning habits, styles, and career paths. ASME has formed GMET global training partners in China, India, Malaysia, The Middle East, and North America. You can access the course materials through the website of ASME and its partners at anytime, and from anywhere throughout the world. For more information, please visit:

[http://www.asme.org/Education/Courses/GMET/Global\\_Management\\_Technology.cfm](http://www.asme.org/Education/Courses/GMET/Global_Management_Technology.cfm)

## Universities Need Your Valuable Perspective!

Applications are currently being accepted for ASME/ABET Program Evaluators.

Program Evaluators contribute to the continuous improvement of Mechanical Engineering, Mechanical Engineering Technology, or related degree programs by evaluating them against a set of criteria related to faculty, facilities, curriculum, and other key program areas. In doing so, you will be helping to assure the quality of undergraduate degree programs and the students graduating from those programs. Serving on an assessment team for a degree program is very professionally and personally rewarding and a great way of supporting the future advancement of the engineering profession.

Applicants should:

- Demonstrate an interest in undergraduate education.
- Demonstrate desired competencies outlined in ABET's Competency Model
- At least one degree in mechanical engineering, mechanical engineering technology, or a closely related discipline.
- 10+ years of work experience. Management experience a plus.
- Graduate degree preferred
- ASME member or willingness to become a member prior to applying to serve as an evaluator

Applications are due by Oct. 15. To complete an application and for more information, please visit

[http://www.asme.org/Education/College/ABET/Become\\_Evaluator.cfm](http://www.asme.org/Education/College/ABET/Become_Evaluator.cfm)

ASME is committed to increasing the range of valuable perspectives which comes from having a diverse cadre of program evaluators. As such, we especially encourage minorities, women, and engineers working in industry to apply. Contact Amy Bentow, manager, Education, at [bentowa@asme.org](mailto:bentowa@asme.org) or 212-591-7880 with additional questions.

## FREE Interactive Volumes on ASME e-library!

The library includes general technical volumes, such as Mark's Standard Handbook for Mechanical Engineers and books on specific topics.

To view the complete list of books, and to sign up for this free member benefit, visit <http://www.asme.org/Membership/Benefits/Professional/eLibrary.cfm>

## 2007 International Mechanical Engineering Congress and Exposition (IMECE)

Plans are well underway for another great ASME Congress on Nov. 11-15, 2007 in Seattle, WA. More than 3000 abstracts have been received and are currently being reviewed for quality and appropriateness for the Congress. The abstracts and papers that pass the review process will be programmed for presentations, along with several panel sessions and poster sessions. We expect to have at least 460 technical sessions programmed from Monday through Thursday. These presentations will be grouped into a new multidisciplinary Track structure. The Track topics are currently being developed. Some of the expected Tracks are:

- Micro- and Nano-Systems
- Mechanics of Solids and Structures
- Biomedical Engineering and Biotechnology
- Energy Systems
- Transportation Systems
- Mechanical Systems and Control
- Heat Transfer, Fluid Flows and Thermal Systems
- Design and Manufacturing
- Sustainable Products and Processes
- Safety Engineering and Reliability
- Processing and Application of Novel Materials
- Software for Engineering Applications
- Engineering Education and Professional Development

The new Track system that replaces the Division-based programming was developed through unprecedented collaboration between Divisions and other ASME Units. Each Track consists of several technical Symposia on topics related to the Track theme, and each Symposium includes several topical Sessions. It is hoped that the new structure will make it easier to manage potential scheduling conflicts and will make the final program easier to maneuver. This is truly a departure from past practice, and I want to take this opportunity to thank all the Division Program Representatives and Track Chairs that helped develop the new system.

There are other changes to the overall program as well. The Honors Assembly, which has been a very important part of



## Advancing Your Career

The ASME Professional Practice Curriculum (PPC) is an online resource designed to help you advance in the engineering profession by providing guidance and resources on subjects that complement an engineer's technical skills.

The PPC consists of 42 modules on topics ranging from product development and writing cost proposals to team building and negotiation. The PPC also provides information on alternative engineering career paths such as patent law, marketing and sales, and entrepreneurship.

To get started, please visit [www.professionalpractice.asme.org](http://www.professionalpractice.asme.org).

Congress, will be moved to Monday night. The Keynote presentation will take place on Sunday evening followed by a Welcome Reception for all attendees. Another important improvement is the daily Authors' Breakfast from Monday through Thursday. This event will provide an opportunity for the Session Chairs to meet the presenters in their sessions. Also, coffee and refreshments will be provided during breaks for all attendees.

In order to reduce the number of parallel activities and reduce scheduling conflicts, most of the governance and business meetings of ASME will be moved to Friday through Sunday. However, all Division level committee meetings and functions will be scheduled during the Monday-Thursday time frame. The popular Student Design Contest and Early Career Forum will be held on Sunday.

Last year in Chicago we implemented a new registration policy to reduce the potential no-shows that had plagued the Conference in recent years. All authors and presenters were required to register in advance. Since this policy was effective and substantially reduced the number of no-shows in Chicago, it will be followed in Seattle as well. Please check the ASME Congress web site ([www.asme.org/congress](http://www.asme.org/congress)) for further information and see how the technical program is taking shape.

We look forward to seeing everyone in Seattle for another successful Congress, the ASME's premier event.

Said Jahanmir  
2007 Congress Chair

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If you would like to become a *sponsor* of the Tallahassee Section, please contact Siddhartha Kamath, Chair, at [kamaths2@asme.org](mailto:kamaths2@asme.org).

ASME International Tallahassee Section publishes this newsletter six to eight times a year. Members are requested to e-mail newsworthy articles to Doug Jones, Newsletter Editor, [jonesd2@asme.org](mailto:jonesd2@asme.org) or to Siddhartha Kamath, Chair, [kamaths2@asme.org](mailto:kamaths2@asme.org).