

Dallas Leading Edge

Institute of Industrial Engineers (IIE) - Supporting Your I.E. Career



Volume 05

October/November/December 2005

Issue 05

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Meeting Announcements

October 2005 Meeting Information

The Dallas IIE Chapter 10 October Meeting was held at Abuelo's Mexican Food Embassy in Lewisville, Texas on Tuesday, October 18th. Andy Jackson presented an overview of the ABET Accreditation Process and the role it plays in Academia, Industry, and Government organizations. Please read the details of this event on page 4 of this newsletter. You should have received a "Reminder Postcard" for this event. If this is not the case, please contact one of the Chapter 10 Board Members to correct this issue.

DATE: Tuesday, October 18th 2005

TIME: 7:00 PM - 8:30 PM

LOCATION: Abuelo's Mexican Food Embassy
2520 South Stemmons Freeway
Lewisville, Texas 75206
Phone: (972) 315-6057

COST: \$5.00

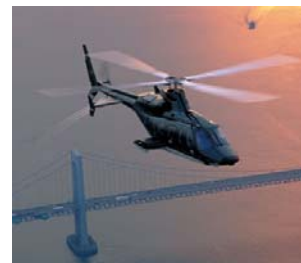
November 2005 Plant Tour Information

DATE: Tuesday, November 15th 2005

TIME: 3:00 PM - 5:00 PM

LOCATION: Bell Helicopter Textron
600 East Hurst Boulevard
Hurst, Texas
(817) 416-6250

COST: \$5.00



The Bell Helicopter Textron, Drive Systems Center (DSC) Plant Tour promises to be a high point of our IIE Chapter Activities for Fall 2005. A [Two-Week Advanced Notification](#) is required if you plan to attend the tour, so make plans now to attend by giving Arturo all the information required by Bell Helicopter for tour participants (see page 2).

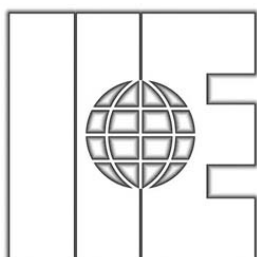
Please send your RSVP to Arturo before 12:00 noon on Monday, [OCTOBER 31st](#) at:
Arturo.Villareal@pepsico.com or 972-963-6228.

December 2005 — Happy Holidays!

[No Chapter 10 Events are Scheduled for December 2005](#)

NEXT EVENT: January 17, 2006 is the next scheduled activity for Chapter 10 members and guests.

LOCATION: J.C. Penney Facility Tour at Alliance. Details to follow.



Bell Helicopter Textron DSC Plant Tour

By Russ Aikman

Bell Helicopter Textron is a wholly owned subsidiary of Textron. Their main plant is located at 600 E. Hurst Blvd, in Hurst, TX. Bell has over 50 years of building a variety of helicopters for commercial, law enforcement, emergency, and military use. The firm continues to innovate, and their most recent model is the V-22 Osprey, a tilt-wing design that is poised to revolutionize the aerospace industry.



V-22 Osprey

The tour will take place at the Drive Systems Center of Excellence (DSC). The DSC manufactures and assembles all commercial and government transmissions. The DSC also manufactures all gears and machines transmission cases.

Bell has a unique mix of products. The Drive Systems Center (DSC) environment is that of a diverse family of products with low production rate. More like a custom-build shop. There are several monument processes like: heat treat, painting, chemical processes, green run test, and inspection that do not blend well into a cell environment.

The tour usually includes the visit to the following departments: Case cell, gear cell, helical gear grinding area, final assembly, jig-bore and milling department, heat treat, green-run test area, and more.

During the tour IEs can expect to see the implementation of various Lean Manufacturing tools and methods, including work cells, point of use storage, 5S, and standard work. The Drive Systems Center (DSC) is a *work in progress*, and you will be able to identify areas where lean has already taken place and other areas that are just beginning the lean transition.

Directions to the plant are available at:
<http://www.bellhelicopter.textron.com/en/companyInfo/drivingDirections/index.cfm>



"Found Money" Goes Unclaimed!

The Chapter 10 Board of Directors has once again decided to offer a **"Limited Time Only"** benefit to help rebuild and maintain our membership ranks.

Here are the Two Offers!

Offer #1: **NEW IIE Members** have a chance to receive a \$50 voucher from Chapter 10 towards their initial \$125 annual membership dues - **just for attending the next IIE Chapter 10 Meeting**. All they must do is complete an application to become an IIE Member and pay the \$75 balance on their annual membership application. This **Limited Time Offer** will be available to the **First Five People** who complete an application as a new member in IIE. (Only one has been awarded thus far!) If any of the remaining four vouchers are not awarded at the next event, we will extend this offer to other events throughout the year, until all five vouchers have been awarded. (**NOTE: These NEW Members may be guests of current members who are invited to attend our monthly events**)



Offer #2: For **Existing Members**, we will provide a \$35 voucher to be used for **renewing** your IIE Membership. This is a First Come-First Served Offer! In order to claim your voucher, you must provide Chapter 10 with your completed annual membership renewal form (*the one that is sent directly to your address from IIE*), and provide us a check to cover the \$90 balance of your dues.

Contact Janet Berkenbile or Anna Cox for complete details on these offers. In both cases, Chapter 10 will mail the completed membership applications to IIE Headquarters along with your full annual payment, thus saving you another 37¢. What could be better than that?

November 2005 Tour Set for Bell Helicopter in Hurst, Texas



Russ Aikman has obtained the **"Official OK"** for an IIE tour of **Bell Helicopter** in Hurst, scheduled for Tuesday, November 15th, starting at 3:00 PM. Keep in mind that the Bell Helicopter tour representatives may limit the number of participants who attend the tour. IIE members and guests must comply with the following two conditions before they will be allowed to participate in the Bell Helicopter tour.

- 1) All tour participants **must sign-up** on or before the deadline. Contact Arturo Villarreal by **12:00 noon on Monday, October 31st** to insure your "place in the queue". Arturo may be reached at: Villarreal@pepsico.com or 972-963-6228.
- 2) It is not necessary to be a U.S. Citizen to attend the tour, but all IIE members and IIE Student Chapter Members must provide their citizenship (and visa status, if they are not a U.S. Citizen) before final approval to attend the tour can be provided.

IIE Factoids

Did you know that IIE . . .

has 20 Divisions and 3 Societies

is an organization with worldwide membership and over 11,400 members are from the United States

has a very useful web site at: www.iienet.org

membership is a bargain at \$125.00 per year

Chapter 10 is **YOUR Link** to IIE Events & Activities, Jobs, Career Advancement, Community Involvement, and Professional Development!

Chapter Activity Report

Recent Revisions to the Chapter Activity Report May Impact our Chapter Standing by Andy Jackson

A recent revision to the annual chapter reporting requirements (Chapter Activity Report or CAR)—*as recommended by a committee of the Networking Leadership Council*—may affect our Gold Award status, if we do not comply with changes specified in at least one revised section of the CAR. The initial concern relates to modifications of Section 4.1—Community Affairs Participation where *“Points can only be claimed for activities that are CHAPTER endorsed, sponsored, promoted, and organized. A minimum of TWO members must be present at these events.”* (emphasis added)

In the past, only ONE member from the Chapter had to be involved for us to count their participation in *Community Affairs* activities. As a result of this change, we may need to coordinate some of our activities more effectively so two or more of our members can participate in events that are also sponsored and endorsed by Chapter 10. That will also mean that information on these community events will need to be provided to the Newsletter Editor in a timely manner so they can be included in the next available newsletter or posted on the website.

Since the CAR serves as the primary vehicle for assessing the health of our chapter each year, you might expect to see an increased emphasis on documenting our participation in community volunteer activities. This is not to say that you will need to volunteer once a week or every month, but one volunteer activity per year by our members, especially ones that are coordinated with the IIE Chapter 10 Board of Directors, would be an invaluable asset to our continued success.

I would appreciate a short e-mail from all of our members to express your feelings on the issue of volunteerism by IIE Senior Chapter Members.

Andy_Jackson@tamu-commerce.edu

Membership Update

Chapter 10 Membership is currently 160. We welcome two new members, Elizabeth Anderson and Paul Schwab in October. Two members were reinstated for October. Thanks for your continued participation and support of IIE.

For the Six Chapter 10 members who have inadvertently let their membership lapse, please renew your membership soon so we can rebuild our membership totals and continue to serve our chosen discipline.

President's Corner

October/November 2005

Not Nearly Enough!

by Susan Wright

When was the last time you took time to further your education? To hone your skills? To learn something new? In September, I spent two weeks at a Defense Acquisition University (DAU) course covering Production and Quality Management. The target audiences for the courses offered by DAU are folks involved in the acquisition of goods and services for the Department of Defense. They save a few seats in each course for participants from industry, which is sort of like bringing the “enemy into the camp”. This course was a terrific overview of current manufacturing management trends and it strives to teach the Defense Contractors Management Agency, the Defense Management Accounting Agency and the buying community (*the commands that actually release Requests for Proposals to help spend our tax dollars*) how to write and manage contractors (*mostly manufacturers*). My latest work assignments have kept me fairly current on lean, Six Sigma and process improvements so it was interesting to see my company’s “customer’s” view of these concepts.

In addition, I was the proud recipient of 8.3 Continuing Education Credits. **Only 8.3!?!?!?** For two whole weeks of training that included a boat load of reading, homework, and writing two case studies? 8.3 is Not Nearly Enough!!!!!! Enough for what, you ask? The State of Texas has a new requirement of 15 Professional Development Hours (PDH’s) for the renewal of all professional engineering licenses. I’ve noticed much more mail in my mail box this year relating to professional development courses and now I know why – they are marketing directly to engineers who need to fulfill the PDH requirement. At least one hour must be related to ethics or a review of the law and rules – that’s OK since my employer is big on ethics. (Now, using our higher math skills – that’s still only 9.3 hours which is still **NOT NEARLY ENOUGH!**)

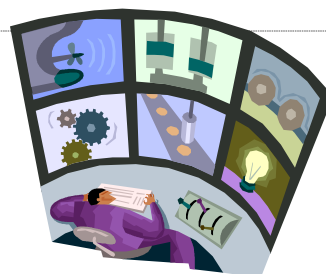
If you are also in this predicament you can go to the website for the Texas Board of Professional Engineers and access all kinds of information describing the new requirements, instructions, and forms. The TBPS reports that the compliance with this new rule has been very good: During the March Renewal period 5% of the engineers forgot to certify their hours, in June the rate was only 2%. Keep in mind that exemptions for the PDH requirement are very different than for the exemptions for the \$200 professional fee. So don’t get stuck with **NOT NEARLY ENOUGH!** Plan now to document your hours and have a speedy renewal process!

I would also like to congratulate Texas A&M University–Commerce on what appears to be a very successful visit from the ABET Accreditation Board. While they won’t know the official results until July 2006 the review team found only a few items to list under concerns/weaknesses/deficiencies. One item TAMUC has worked on recently is instilling the concept of “life-long learning” into many of their courses. Life-Long Learning would include PDH hours and the TBPE’s Continuing Education Program.

P.S. After two weeks at the DAU course in Virginia (*where it was hot . . . and their drought has been as bad as ours this year*), I took a week’s vacation in Vancouver, BC in October. That was not nearly enough, either!

I hope to see you at our upcoming IIE events.

Susan Wright
President, Dallas Chapter IIE



NOTE: A checkmark on your mailing label indicates your IIE membership has now expired. Please renew as soon as possible.

Campus Corner

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National Engineers Week February 21-25, 2005

Plans are being made to celebrate the 2006 National Engineers Week on college campuses across the nation. Here in East Texas, a primary event during Engineers Week is the Joint Meeting with the student chapters from The University of Texas at Arlington (Chapter #878), Texas A&M University-Commerce (Chapter #791), Dallas IIE Senior Chapter #10, and the Fort Worth Senior Chapter #152. Last year's event was well attended on the UTA Campus and this year promises to be even better. If you are contacted by one or both of the student chapters to participate in activities during that week, please consider accepting their invitation. Going back on campus after a few months (or years) can be quite an experience—AND you may even get some “Free Pizza” in the process!

Typical invitations by student chapters to participate in Engineers Week might include:

- Serving as Guest Speakers
- Conducting Mock Interviews
- Serving on a Professional Panel
- Hosting a Plant Tour
- Evaluating & Screening Student Résumés
- Just Hanging Out & Discussing IE “Stuff”

Did I mention the “Free Pizza”?

If you are interested, please contact: Dr. Jackson at Texas A&M University-Commerce or Dr. Rogers at UTA. Both of these faculty advisors can be found under the Chapters Section of the IIE website.

Dallas Chapter 10 IIE Member's Activities

ABET and You: How Does Accreditation Affect Your Organization?

Dr. Andrew E. Jackson

Abuelo's Mexican Embassy – Lewisville, TX

October 18, 2005

Dr. Andrew E. Jackson, P.E., Professor of Industrial Engineering at Texas A&M University – Commerce presented an overview of the ABET (Accreditation Board of Engineering & Technology) academic accreditation process. Andy directed this undertaking, which is a first for the Texas A&M–Commerce (TAMUC) campus. Over the course of the past 14 months, Andy and his associates have conducted the self-study, prepared the site for the ABET visit, taken considerable input from internal and external stakeholders, to developed their assessment process.

The ABET accreditation for a school is similar to ISO9000 certification for a factory. You define and document your processes, perform your processes, measure your processes, and then show what you've done. There are eight ABET criteria that must be met, but eleven elements under Criteria 3 become the focus of the assessment process. These are commonly called Criterion 3(a) through 3(k). Andy and his group developed a self-assessment matrix which charted their IE courses vs. these criteria. A rating of 0, 1, 2, or 3 was given to each, with 0 being “not covered in this course” and 3 being “significant coverage in this course”. The goal of this matrix was to see how well the faculty fulfilled these categories. A similar matrix was generated that charted individual students vs. Industrial Engineering course competency criteria. This report shows how well the students demonstrated competency. It also showed which areas (competencies) the instructors need focus their improvement efforts.

Feedback is important in this process. Feedback on courses is important for developing future course models. External constituents, industry, current students, and graduates are used to modify the curriculum over time.

The ABET representatives were on campus for 2-1/2 days, so it was vitally important that Andy and his group were organized and prepared. As a result of their efforts, Andy's team was rated as sufficient in all but five categories, only one of which was classified as “deficient”. This deficient area involved the IE curriculum, which lacked calculus-based statistics courses and therefore fell short of the minimum-hours requirement. This issue was quickly addressed and the new proposed curriculum has been submitted for approval. Only the areas classified as “deficient” will keep a school from being accredited. Overall, to have only 5 areas for improvement is a rarity, especially for the initial application.

An ABET accreditation is not only a benefit to a university, but it is also a benefit to employers and industry at large. The quality of the students is proof. If a company does not have to re-train graduates at ground level, then the faculty did their job. Continually developing program objectives and outcomes, creating, implementing, and modifying curriculum, incorporating information into courses, and performing assessment and sharing feedback are all important steps in self-assessment.

University of Texas at Dallas Offers Certificate Programs

The Managing Director of the Center for Intelligent Supply Networks at University of Texas at Dallas has asked us to notify our members about a number of professional certificate programs at UTD that may be of interest to our membership. A brief program description and program brochures are also available from Dr. Rajamani, upon request. Links to each of the four programs are provided below.

Professional Certificate in Supply Chain Management

http://www.som.utdallas.edu/c4isn/c4isn_programs.htm

Professional Certificate in Product Lifecycle Management

http://www.som.utdallas.edu/c4isn/c4isn_programs_plm_cert.htm

Lean Six Sigma Green Belt Training

http://www.som.utdallas.edu/c4isn/c4isn_sigma_green.htm

Online Certificate in Sourcing Management

http://www.som.utdallas.edu/c4isn/c4isn_ecertificate_sourcing.htm

If you have any additional questions, you may contact: Divakar Rajamani, Ph.D., Professor and Managing Director, Center for Intelligent Supply Networks, School of Management at the University of Texas at Dallas. His telephone number is: (469) 371-4300

Career Development

Contact Rod Siders for More Details

Position Information:

Job ID:	819907	Company Name:	Trio Manufacturing, Inc.	Position Title:	Manufacturing Engineering Manager
Industry:	Aircraft/Aerospace	Type of Job:	Full-Time	Job Duration:	Indefinite
Min Education:	BA/BS/Undergrad.	Min Experience:	7-10 Years	Date Posted:	Thursday, September 22nd, 2005
Job Location:	El Segundo, CA, US				

Description: Trio is seeking an experienced and highly energetic Manufacturing Engineer. Trio is one of the leading providers of precision measuring instruments, parts and tooling to Boeing, Northrop Grumman, Airbus and many other top aerospace companies. Trio also designs and manufactures a line of automotive aftermarket accessories. The selected candidate will have experience working with lean principles, machining, CNC Programming and assembly in the automotive and/or aerospace industry. Ideal candidate will manage the Manufacturing Engineering Department. The candidate will be responsible for working with production personnel to develop, recommend and implement process improvements. Evaluate labor and operating costs for compliance with standards and stated cost objectives and initiate/lead problem solving on technical issues. Develop short and long term manufacturing strategies and capital requirements. Actively participate in the development and introduction of new products. Day to day responsibilities will include planning of job shop and production work, creation and modification of travelers and process procedures. Determine the most cost-effective processes, methods, systems, tooling, equipment and plant layout to be used in the manufacture of products. Candidate must be able to accurately quote job costs on a variety of precision-machined parts and assemblies.

The candidate will also implement manufacturing techniques and processes such as J.I.T., Continuous Flow, Kanban, etc., to reduce manufacturing labor costs, product through-put time, W.I.P., inventory levels and overall manufacturing costs, while striving to attain World Class Manufacturing status. Good communication skills, both verbal and written. Good leadership skills, able to problem solve, persuade and motivate. Able to coordinate multiple activities, plan, prioritize and organize. Bachelor's degree in engineering or related field, or equivalent experience required. 7-10 years previous experience in a manufacturing environment and previous supervisory experience REQUIRED. Experience and advanced knowledge of MRP Software, along with some type of CAD/CAM such as Solid Works, MasterCam, SurfCam, Pro-Engineer is also REQUIRED. Frequent standing and walking in and throughout the manufacturing environment. Able to work days, nights and/or overtime as required accomplishing tasks.

Trio offers a variety of benefits including medical, dental, optical, 401k, and many more. Join the Trio Team!

How To Contact/Apply: Contact: - Michael Hunkins Email Address: michael@trulok.com Phone: 310-640-6123

#ML 18338. Our client is an industry leader in a niche marketplace. They are seeking an experienced Process/Product Engineer to join their manufacturing and engineering team. To be considered for an interview, you must have the following experience/skills: BS degree in Metallurgy, Material Science, or Industrial Engineering, 5 years plus experience as a metallurgist or material science specialist in a stainless steel, rolled steel, or related industry, Experience with "Lean Manufacturing" a BIG plus!! Must be willing to relocate to the north eastern United States. If you are qualified and interested I hearing more about this opportunity, please respond to this e-mail. If not, simply delete or please pass along to someone who may be interested.

MRI The General Manufacturing and Consumer Products Group
9515 Deereco Road, Suite 900
Timonium, MD 21093

Mike Lovejoy, National Account Manager
(410) 252-6616 X-215 (866) 277-4049 (410) 252-7076 (FAX)
mlovejoy@MRIBaltimore.com http: <http://www.MRIBaltimore.com>

We have several openings in Mfg. and Process Engineering – if you know of any candidates please have them contact me, the FMC HR department (Vicki Vargas 281-591-3803 or Jessica Hernandez 281-591-4192) or Ann Silvia (see below) who is assisting us in our search. I've attached a description that includes projected compensation.

For more information, contact: Ann Sylvia, Project Manager
Duffy Research, Inc.
asylvia@duffyresearch.com

(585) 720-9841
(877) 877-9825 (toll free)

or Kerry J. Koski
FMC Technologies
Houston Subsea Operations
Office (281) 591-4543

Carter & Burgess, Inc. - Industrial Engineering Project Manager

Full time Fort Worth, TX location Salary Range - very attractive annual base + semi and annual bonuses. Skill sets desired: - DC operations/methods concept development experience (75% of work load) - Operational data analysis experience (inventory, order, sku, etc.) - Receiving/shipping dock development - Storage area planning (inventory levels, aisles, rack configurations) - Order Fulfillment planning (picking, packing, special handling) - Storage and material handling equipment knowledge (racking, conveyors, etc.) - Technology knowledge (pick to light, RF, etc.) - AutoCAD drafting skills - Warehouse management system/IT knowledge - DC facility network strategy understanding - Comfortable traveling for projects (0% to 50% at most) - Travel depends on clients location and expectations, but it has always been very manageable - Self-starter, motivated, and energetic - Attend trade shows and marketing events - Support proposal drafting/business development activities - 6-12 years experience in these areas...

Norman Saenz, Jr.
Manager of Logistics

Group Carter & Burgess
817-222-8689 phone

777 Main Street
817-822-1930 cell

Fort Worth, TX 76102
817-222-8550 fax

Hello Roderick, I hope that this message finds you well. I wanted to let you know that Gap Inc. is currently looking for a Senior Industrial Engineer for our distribution facility in Fresno, California. If you know of anyone that might be interested, please have him/her e-mail his/her resume directly to me. I am attaching a copy of the job description. Thanks so much for your continued partnership! Kindest Regards,

Brooke McCown

Gap Inc., Recruiting

Supply Chain/Logistics

Brooke_Mccown@gap.com



Institute of Industrial Engineers
Dallas Chapter Number 10
2115 Royal Oaks Drive
Irving, TX 75060

Dallas IIE Chapter 10 Meeting Schedule

For latest updates visit our website!

October Event: Meeting: October 18th 7:00—8:30 PM
Location: Abuelo's Mexican Food Embassy
2520 South Stemmons Freeway
Lewisville, Texas 75067 (972) 315-6057
Spouses & Guests Welcomed

November Event: Factory Tour: Tuesday November 15th
Times: 3:00—5:00 PM
Location: Bell Helicopter Textron
600 East Hurst Boulevard
Hurst, Texas

Newsletter Compiled by:

Texas A&M University-Commerce Student Chapter of IIE
who is sponsoring a portion of the costs for
printing and distributing the Chapter 10 IIE newsletter.

The Dallas Leading Edge is the official publication of the Institute of Industrial Engineers, Dallas Chapter No. 10, a nonprofit, 501(c)(3) organization under the U.S. tax code. The Dallas Leading Edge is published monthly to bi-monthly as a service to its members. It serves the needs of business problem solvers, consultants, engineers, and managers who apply industrial engineering and business analysis methods and techniques to improve productivity and quality, integrate people and business systems, and re-engineer business processes within their organizations. It is distributed free to members. Subscriptions are available to non-members for \$12 a year.

1/4 Page Ad Rate
\$50

1/2 Page Ad Rate
\$75

1 Page Ad Rate
\$100

Board of Directors

Note: IIE Career Leads & Events
are Posted on our IIE Website
<http://www.geocities.com/dallasie>



President	Susan Wright	W: (972) 952-5001
Past President	Russ Aikman	W: (817) 307-0400
President-Elect	Andy Jackson	W: (903) 468-8115
VP - Membership	Janet Berkenbile	W: (972) 934-7280
Treasurer	Anna Cox	H: (972) 660-4689
Secretary	Chad Frye	W: (972) 659-2750

Committees & Communications

Newsletter Editor	Andy Jackson	W: (903) 468-8115
Email Liaison	Anthony Andrews	W: (214) 905-0509
WEB Master	Bryan Smith	W: (817) 302-7367
Program Coordinator	Arturo Villarreal	W: (972) 334-3648
Career Development	Rod Siders	W: (972) 458-6549

Student/Community Affairs

Student Affairs	OPEN	W: (972) 789-3233
Community Affairs	OPEN	

Special Committees

Director & PE Registration	Al Attah, PE	W: (972) 579-0030
Director	Don Cox	W: (972) 495-3922
Director	Russ Aikman	W: (817) 307-0400
Region V-Vice Pres.	Terry Collins	W: (806) 742-3543