

**Family Appreciation Day – North West Houston Sub-Section – Region X**

Richard Boswell, North West Houston Sub-Section Chair 2000/2001

Engineering Family Appreciation Day (EFAD), Sam Houston Racetrack, originally scheduled for November 4, 2000. This event was canceled because of flooding and has been rescheduled to March 10, 2001`

I am very excited about the plans we have for EFAD FEST 2000, and I hope you are too. This is the fourth event conducted to celebrate engineering families and it gets bigger and better each time. We have these important themes and goals:

- A fund raising event intended to support our student education projects such as Special Award prizes at Science Fairs.
- A Public Affairs event to increase the visibility of engineers in the public eye.
- A Member Service event that is unique from many others we conduct from a commercial/professional theme.
- A celebration of family values.
- And this year, another fun time with a nifty flyer theme on a special occasion.

Our first and second EFADs were in Galveston in conjunction with the Ocean Star Museum. The '98 event even had it's own Parade of Technology and distinguished speakers! But also, what a special place to have a family theme in a local resort environment. But deeper down, we had a location steeped in family heritage where 90 years earlier one of the greatest family tragedies was suffered in nature's fury that nearly destroyed the Island and washed away it's people overnight. We planted our seeds and got our feet on the ground with these first two, starting small and setting our roots. Although Galveston was the coolest place in Texas, we wilted in the heat and decided to change the venue for the third event.

Last year we moved indoors to the air-conditioned luxury of the Astrodome, and featured a Tailgate Party before the Astro's game. Again we almost melted in the heat, and had to increase the size of our tent to accommodate the unimagined response of ticket sales.

This year we continue our learning curve by first deciding to reschedule to a cooler season. We continue to expand our audience with additional co-hosts, which also let's us share the load to conduct this event. So hang on tight, we are hooked onto a big one!

Saturday November 4 is the beginning of Thoroughbred Racing season, featuring the Breeder's Cup Race at Churchill Downs in Kentucky. Regrettably, this is also Opening Day for deer hunting in North Texas (originally published as Nov 6), and we will miss our friends who do not want to postpone their chance of the big one. But this is the start of Thoroughbred Racing, and we are fortunate to have an encouraging host at Sam Houston Race Park through Mr. Chris Madsen.

We are renting the entire Infield Park for the day, and we can do as much as we can afford all day and until the racing is complete that night. Your admission ticket gets you into the Sam Houston Race Park, and in to our special "members only" family party. The SHRP is relatively new in Houston (built 1994). It is very clean and well managed, and has lots of meeting room possibilities. A great local resource, and it is in demand from our petroleum based corporate offices for special meeting events. I encourage you to check it out on your own,

either through on-site enjoyment of Quarter Horse Racing, or via the Internet. I tried it out for personal fund raising, and found that it is a very economical learning opportunity because Quarter Horses are not easily predictable.

What a theme we have knitted this time! Take what we already have, and add

- Horses (long developed heritage of Power, Transportation, and Calvary)
- Racing
- A Texas Hero and how he managed his risks
- Competition of individuals
- Winning, and Wagering (predicting the winner and taking a chance)

I include the last item because there is some amount of sensitivity about this. Did you know that Horse Racing is the second most attended spectator sport (behind baseball) ? The issue appears to be the morality of taking a chance, but this is completely legal and more fun than the Texas Lottery. If this a negative issue with you, please consider this an opportunity to teach responsibility to your children, and how to evaluate risk taking and its consequence of being wrong. Can anyone say that drilling a well is risk free?

What we say to the public that ***engineers are winners, and our greatest gift is our family. Our engineers are technology heroes, and have been a cornerstone of Houston economic vitality and there are a lot of engineering families in this Gulf Coast vicinity.***

How do we do this?

- We put on a successful event for attendance and funding.
- We maintain a balanced budget: Control expense, sell tickets, and bring home Sponsorships!
- We publicize it widely.
- We give some extra effort.
- We continue to grow.

If this fails, all is not lost. I suspect that Nov 4 will be a packed house at SHRP, and we can sell tickets at the gate to our special in-field playground. I would prefer to pack the place with our engineering friends and their families.

Next Team meeting is lunch at SHRP, on Thursday Aug 17. You will soon receive minutes from last meetings, and a printer ready copy of flyer for last review. Please let Lisa Clapp know how many flyers are needed for your organization. Stay tuned for a special web page dedicated to this event. See you then and there.

Thanks for all you do,  
Richard Boswell

Engineers  
Family  
Appreciation  
Day  
Committee

**4th Annual EFAD on Nov 4, 2000  
was postponed due to flooding!  
New Date is Saturday March 10 !!**

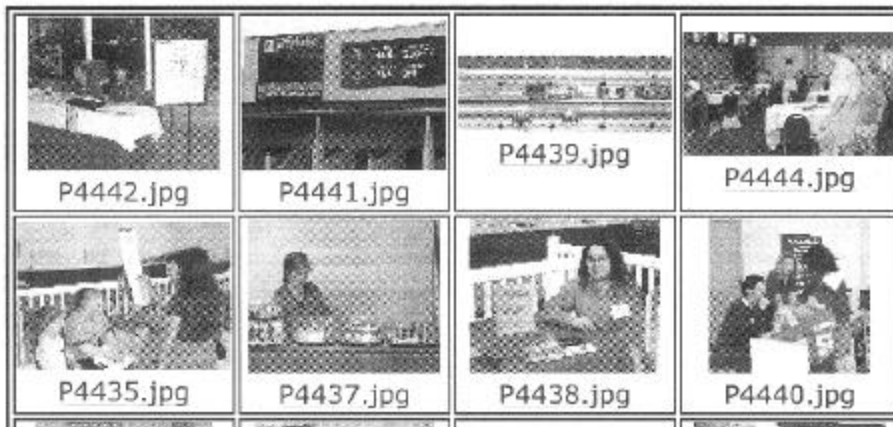
We are pleased to announce that the drought is over for now, but our FEST 2000 was postponed to assure your safety, health, and comfort. The soaked and slippery infield was more than any had anticipated. SHRP informed us at 11 am that plans needed to change. Keep your tickets for the rescheduled festivity (Saturday March 10). You were given complimentary entry Saturday Nov 4 at SHRP. We had a reception in the Paddock Room indoors, but had to cancel our Cookers and our meal. Cake and sodas were served, and many enjoyed the clowns, caricatures, and exhibits present.

The photos below describe some of the fun we were able to salvage in these circumstances for the estimated 200 family members who did come out. We regret the inconvenience this may have caused you.

Your Fall Fest 2000 tickets are still valid and you may purchase additional tickets for the full featured Spring Fest 2001 as noted below.

Thanks for all you have done and we'll see you soon,  
Richard Boswell  
EFAD Chair  
Jan 14, 2001

- **Chair**  
Richard Boswell - ASME NWHSS
- **Sponsors**  
Bob Gordon - ASME OMAE
- **Cookers**  
Genie Blackmon - ASME PD  
  
Napolean Douglas - ASME-NWHSS
- **Activities**  
Amy Hopkins -ASME NWHSS  
  
Jolene Eulitt -ASCE HB
- **Refreshments**  
Steve Otis - AADE Houston
- **First Robots**  
Barbara Morrison - First Pasadena
- **Welcome Comm**  
Carbett Duhon -SPE GCS



**EFAD Hosts**

ASME International:

- Petroleum Division
- Great International Southwest Region X
- South Texas Section
- North West Houston Sub Section
- Plant Engineering and Maintenance Tech Ch
- Petroleum Tech Ch
- Offshore Mechanics and Arctic Engr Tech Ch

**EFAD Co-Hosts**

- SPE Gulf Coast Section (Petroleum)
- AADE Houston (Drilling)
- ASSE Gulf Coast (Safety)
- ASCE Houston Branch (Civil)
- SWE Houston Area

Buddy Woodroof - SPE GCS

• **Co Host**

**Reps**

Glen MacDonald - ASME STS

Lonnie Pena - ASSE GCS

Duane Halverson - AADE Houston

Michele Tesciuba - SWE Houston

Clint Britt - ASME PEM TC

Ian Schurr - ASME Petr TC

• **Staff**

Lisa Clapp - ASME PD

Awards

Ross Kastor Award

Educational

Science Fair

First Robots



P4445.jpg



P4451.jpg



P4448.jpg



P4454.jpg

- AIChE South Texas Section (Chemical)
- Offshore Energy Centre
- SPWP

**Click here for latest info and ticket orders, or call 281-493-3491 to order/reserve your tickets NOW with this Form**



**Click here for the official EFAD FLYER (pdf) which You can distribute!**

**Click here for listing of the day's *Activities and Schedules* !**



*Greetings: Welcome to the Fourth Annual Engineers' Family Appreciation Day. This November 4 event in Houston provides a great opportunity for engineers and their families to enjoy time together.*

*Engineers play a vital role in many critical industries and projects and must often travel to distant locations to fulfill job duties. I commend the event's sponsors and organizers for providing a time of relaxation and recreation for these dedicated professionals and their loved ones. Your efforts support families and strengthen the community.*

*Laura joins me in sending best wishes for a fun-filled and*

*memorable event.*

*Sincerely  
George W. Bush*

**Go to a special message for the EFAD 2000 Team Committee**

# **Engineers Family Appreciation Day**

**Spring Fest 2001**

*recognizing*

*The mission of the EFAD is to honor all engineering families and provide an opportunity for them to share fun time together.*

*Engineers play a major role as the designers and implementers of the technology that fuels the world. The Texa Gulf Coast prospers from their endeavors. These Engineers work in diverse careers in the Houston economy. They have made major contributions to the development of the petroleum industry and would not have been able to achieve this without the support and*

Texas Best Robotics

Ocean Star Drilling Rig Museum

Engineers Week

Discover Engineering

The Slinky

How Stuff Works

Engines of Our Ingenuity

Education for Tomorrow Alliance

## **Families, Engineers, and Students in Technology**

encouragement of their families.

### **When/Where:**

**Saturday, March 10, 4 pm - Completion of Live Racing ~ 9:30 pm**

### ***Sam Houston Race Park's Infield Park***

The Breeder's Cup is the exciting beginning of Thoroughbred Racing Season. Live racing will begin around 5:30 at conclusion of simulcast racing from Churchill Downs in Kentucky. Check SHRP for actual schedule.

### **North Sam Houston Tollway between Fallbrook and Fairbanks N Houston**

Houston, TX

**Ticket Cost is \$10 per adult, \$5 per youth, Children 3 & under FREE !**

*Advance ticket purchase required.*

*Bring your Family and Guests!*

*Membership Not Required.*

*The SHRP is an excellent place for this event. We will be renting the entire Infield Park for activities, including the evening of live horse racing! The weather should be significantly cooler than our previous August dates, and if harsh weather develops, all attendees can simply move inside the covered pavillion!*

Last year's story: Engineers' Family Appreciation Day 1999

### **Mission Statement**

Engineer's Family Appreciation Day activity is intended to honor all engineering families and provide an opportunity for them to share fun time together.

Engineers play a major role as the designers and implementers of the technology that fuels the world. The Texas Gulf Coast prospers from their endeavors. These Engineers work in diverse careers in the Houston economy. They have made major contributions to the development of the petroleum industry and would not have been able to achieve this without the support and encouragement of their families.

**Please Thank Our Special Student Ticket Sponsors**

Compaq

**Please Thank Our Triple Crown Sponsors**

Stress Engineering Services

Schlumberger

**Please Thank Our Cookers**

J.P. KENNY GROUP

**Please Thank Our Derby Sponsors**

FMC SOFEC

### **Objective**

An objective of the event is to share the proceeds with the hosting organizations to benefit their educational programs such as local Science Fair Special Awarding.

EFAD will provide an opportunity to publicize the important role of the engineer in our community.

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### **Co Hosting Societies**

ASME International:

- Petroleum Division
- Region X
- South Texas Section
- North West Houston Sub Section
- Petroleum Technical Chapter
- OMAE Technical Chapter
- Plant Engineering and Maintenance Technical Chapter

SPE Gulf Coast Section (Society Petroleum Engineers)  
AADE Houston (American Association Drilling Engineers)  
ASSE Gulf Coast (American Society Safety Engineers)  
ASCE Houston Branch (American Society Civil Engineers)  
SWE Houston Area (Society Women Engineers)  
AIChE South Texas Section (American Institute Chemical Engineers)  
Offshore Energy Center  
SPWP (Society of Professional Women in Petroleum)

Contact Richard Boswell at 281-955-2900 if you would like to help out, or if your organization could be a part of this.

On behalf of the co-hosts, we thank the Petroleum Division for its guidance and support in this and previous EFAD celebrations. As always, the PD Staff have been essential in the implementation of this event. Many Thanks to Cindia Stauss and Lisa Clapp !

***Please Contact: Lisa Clapp of ASME Petroleum Division Office  
281-493-3491 to order your tickets and for more info !***

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### **Preliminary Sponsorship Info**

### **Support Your Professional Society !**

Sponsor Individually or by Your Company

**TROPHY** \$5000  
(100 event tickets and name on Race Park's Lighted Race Board)

Floating  
Systems

***Please  
Thank Our  
Jockey  
Sponsors***

Pro Staff  
Engineering  
Professionals

Cobb,  
Fendley &  
Associates

HNTB

***Please  
Thank Our  
Donors***

Technical  
Products II

ProTechnics

Granite  
Professional  
& Technical  
Services

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***Please  
Thank Our  
Ticket  
Sponsors***

Hughes  
Christensen

**WINNER'S CIRCLE** \$2500

(50 event tickets and name on Race Park's Lighted Race Board)

**TRIPLE CROWN** \$1500

(30 event tickets and name on Race Park's Lighted Board)

**DERBY** \$1000

(20 event tickets and name on Race Park's Lighted Board)

**JOCKEY** \$500

(10 event tickets)

COMPANY SPONSORED **COOKING TEAMS**  
& FOOD TO SERVE 300 EACH

SPECIAL **GIVEAWAY ITEMS** WITH YOUR LOGO  
FOR ALL ATTENDING FAMILY MEMBERS

**DOOR PRIZES**

Drawings between each race!

***Please Contact: Lisa Clapp of ASME Petroleum Division  
Office for more info at  
281-493-3491***

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*Thanks for all you do....*

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*www.efad2000.com*

Last updates were on Jan 14, 2001.

Please email comments and content to *efad webmaster*

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Section. All rights reserved.

## **Local Professional Development Course – Northern Alberta Sub-Section – Region VIII**

John Aumuller, Chair, Northern Alberta Sub-Section

We have now held three very successful PD sessions during the fall season of 2000. We have netted the following new income on the following courses

- 1st: Rotating Equipment: Failure Analysis of Machinery, October 17-19, 2000. \$ 5,000
- 2nd: API 580 Risk Based Inspection, Nov 20, 21, 2000. \$ 3,500
- 3rd: API 579 Fitness for Service. \$ 6,000

This has been our most successful season to date. I attribute to:

- 1) Course selection: we fit the topics to the interests of our target market and we work with the instructors to customize the topic for that market. This is based on discussions with engineering managers of the local companies.
- 2) Instructor selection: we find the best available for each subject based on industry contacts. Most instructors have presented these courses before.
- 3) To hold down costs, the courses are given in the conference room of my employer. The instructor sends me a master of the course material and I have it reproduced locally..
- 4) Contacts: we do not use a newsletter but rely on e-mail and peer contacting within targeted firms. We also use our engineering newspaper to list the course offerings. We have contacted other provincial associations who, to some extent or another, have listed our program on their continuing education page.

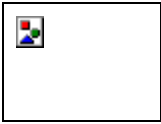
It doesn't always work, but this year has been extraordinarily successful for us. In past years, one or two courses have made us a thousand or so, but this year was just great. One of our instructors told us he thought it was one of the best PD programs in the ASME sections. We are proud of that.

We set a cutoff date of about three weeks out. If the sign-up is insufficient to support the costs, especially where the instructor is being flown in, the course is canceled. Instructors do not buy their tickets until I authorize them to do so.. The September Finite Element Analysis course was canceled due to lack of interest

The Northern Alberta Sub-Section plans to use some of the money to establish a scholarship in our Section's name at our local university (University of Alberta, Edmonton, Canada).

The Northern Alberta Sub-Section is filling a very important niche in fulfilling the need for professional development courses to serve the petroleum industry. These courses are not offered by any other organizations or the local university.

Regards, John Aumuller



ASME International

## NORTHERN ALBERTA SUBSECTION

### Professional Development

In Alberta, professional development is mandated by [APEGGA](#). To help meet the continuing competency requirements of the ACT, the ASME Northern Alberta Subsection offers the following professional development courses in an economical and convenient format for engineers, technologists and designers in Western Canada and the US Pacific Northwest. Please feel free to let us know if these courses interest you and if you would like to see us develop others.

As a courtesy, we are listing courses of other technical societies on a request basis.

[ASME VIII, Div 2 Design by Analysis, App 4 & 5](#)

[Finite Element Analysis Computer Aided Engineering](#)

[ASME VIII, Div 2 Design by Analysis, High Temp Fatigue](#)

[Finite Element Analysis Tutorial](#)

[Piping Analysis \(ASME B31.3\) by Computer Methods](#)

[Rotating Equipment: Failure Analysis of Machinery](#)

[Rotating Equipment: Machinery for Process Plants](#)

[API 579 Fitness for Service & Mechanical Integrity](#)

[API 581 Risk Based Inspection](#)

[API 650 & 653 Tank Design, Maintenance & Evaluation](#)

ASM/SME

- [Practical Guide to Polymers](#)

[Registration](#)

[Return to home](#)



ASME International

NORTHERN ALBERTA SUBSECTION

Registration

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REGISTRATION FORM for TECHNICAL TRAINING SESSIONS

ORGANIZATION:

ADDRESS:

BUS PHONE:

FAX:

NAME OF CONTACT:

e-mail:

PO Number:

Personal/Corporate Cheque #:

COURSE	DATE	FEE	# ATTENDING & NAME(S)
Finite Element Analysis Tutorial	Sep 30 / 00	\$	
Rotating Equipment: Failure Analysis of Machinery	Oct 17,18,19 / 00	\$ 1,385	
API 580 Risk Based Inspection	Nov 20,21 / 00	\$	
API 579 Fitness for Service	Jan 19, 20 / 01	\$	
API 650/653 Tankage	Mar 6,7,8 / 01	\$ 1,385	
ASME VIII, Div 2 App 4 & 5	Mar 9,10 / 01	\$	
Total:			

Fee or PO number must be received 3 weeks prior to course to reserve place as enrollment is limited. All funds are Canadian dollars (CDN \$).

ASME Northern Alberta reserves the right to cancel a course if minimum enrolment has not been reached. Purchase order (oac) or approved cheque accepted, only.

Fax registration to: ASME Northern Alberta Subsection, c/o Suite 608 Oxford Tower, 10235 - 101 St, Edmonton, AB Canada T5J 3G1 Attn: John Aumuller, P.Eng (780)-426-1000 FAX (780) 421-4279 or (best of all) e-mail: [aumullerj@engineer.ca](mailto:aumullerj@engineer.ca).

<http://www.engineer.ca/asmenorthern/register.htm>

02/16/2001



**ASME International**

## **NORTHERN ALBERTA SUBSECTION**

### **Rotating Equipment: Machinery Failure Analysis and Prevention**

This three-day course presents a systematic approach to fault diagnosis and failure prevention in a broad range of machinery used in the process, manufacturing, mining, and power generation industries. The key routes to preventive maintenance are demonstrated through both overview and the study of examples in metallurgical failure analysis, vibration analysis, and a sequential approach to machinery troubleshooting and problem solving. Equipment failure events will be reviewed and participants are encouraged to bring to the seminar relevant assembly drawings or such components as failed bearings, gears, mechanical seals and similar machine elements for failure analysis discussion. Upon completion of this course, participants will gain an understanding of structured, results-oriented root cause failure analysis methods for all types of machine components and entire machinery systems. Participants will also learn how parts fail, why they fail in a given mode, and how to prevent failures. Participants will gain a thorough understanding of making the best possible use of available failure statistics and how these can be used in a conscientiously applied comprehensive program of specifying, purchasing, installing, commissioning and operating machinery.

#### **Course Contents:**

##### **Failure Analysis and Troubleshooting:**

- Causes of Machinery Failure
- Contributing Factors Often Overlooked

##### **Metallurgical Failure Analysis Methodology:**

- Failure Analysis of Bolted Joints and Shafts
- Ductile vs. Brittle Failures and Stress Raisers

##### **Machinery Component Analysis and Reliability Improvement:**

- Redesign Opportunities
- Analyzing Wear Failures
- Couplings, Bearings and Gear Failure Analysis
- Mechanical Seals & O-Ring Failures and Selection Strategies
- Major Machinery Lubrication Management (Economics & optimization)

##### **Vendor Selection and Reliability Review Methods:**

- Centrifugal Pump Selection Examples
- Compressor Reliability Review Examples

##### **Machinery Troubleshooting:**

- The Matrix Approach to Machinery Troubleshooting  
(For pumps, compressors, fans, turbines, others)

##### **Vibration Analysis - A Management Overview:**

- Specific Machinery Problems
- Monitoring and Analysis Methods

##### **Structured Problem Solving Sequence:**

- Situation Analysis, Cause Analysis, Action Generation, Decision Making • Root Cause Failure Analysis (RCFA) Principles

The text for this course is "MACHINERY FAILURE ANALYSIS AND TROUBLESHOOTING", Gulf Publishing, Houston TX., by the Course Director F.K.Geitner and H.P.Bloch. Attendees are asked to bring this book for reference, if available. This is a highly practical course for maintenance and machinery engineers, supervisors and technicians involved in machinery operation and troubleshooting. Personnel from all process industries (refining, petrochemical, chemical, mining,

pharmaceutical, fertilizer, food and utilities) will benefit.

## **Instructor**

**Mr. Fred K. Geitner is a registered Professional Engineer in the Province of Ontario. He is presently working as an expert witness for rotating and reciprocating process machinery, he is also advising and teaching in the field of process machinery reliability improvement and maintenance. For two years, from January 1993, he worked as an engineering consultant for a major natural gas transmission company in Germany. In this role he was involved in machinery technology liaison work (gas turbines and compressors) between pipeline companies in the independent states of the former Soviet Union and the German firm. Before retiring from Imperial Oil in 1992 after 20 years of service, Mr. Geitner's professional career included positions as Engineering Associate with Esso Chemical Canada and a three year assignment as lead machinery specialist with Exxon Chemical France.**

**Prior to joining Imperial Oil, Mr. Geitner worked ten years for Cooper Industries, Mt.Vernon, Ohio. With Cooper, a major manufacturer of process machinery, he held positions in field service engineering, design and manufacturing at various locations in Canada and the US. Mr. Geitner graduated from the Technical University of Berlin with a M.S. (Dipl -Ing.) degree in Engineering and did post graduate studies at the University of Cincinnati, Ohio.**

**Together with H.P.Bloch, he co-authored a series of books on process machinery management and reliability engineering. He has presented courses and seminars on design, operation, maintenance, and reliability engineering of process machinery and related equipment in Canada, the US, Europe, South America and the Middle East.**

[Register](#)

[Return](#)

## Local Professional Development Courses – Arizona Section – Region XII

Ms. Theresa Taylor, Director & past Chair of the Arizona Section

The Arizona section selected the “Fatigue for Engineers” course from the selection of ASME Local Professional Development courses, based on an informal poll of those on section operating board and the interests of the organizer’s employer.

She selected a colleague, Joe Vecera, P.E. from Honeywell Satellite Systems Operations (SSO) as the instructor, base on his extensive qualifications in the field. He did a very good job of using the curse material, while working in his own experience and examples

Terri downloaded the instructor guide and student notebooks from the ASME net at no charge and had the student notebooks printed up by Honeywell also at no charge. The list of Career Development Courses can be found at [http://www.asme.org/pro\\_dev/career/](http://www.asme.org/pro_dev/career/) on the ASME Website.

The section charged \$45 prior to November 4 and \$55 after that date. They also charged \$15 for students registering before November 14. The section typically charges the same fee for members and non-members. They also bring membership applications for the non-members.

The “Fatigue for Engineers” course was presented twice, first on Saturday, November 18, 2000 to the general engineering public. A total of 18 attended, including two walk-ins. The course was again presented on Tuesday, December 12, 2000, in-house to 30 Honeywell Aerospace Systems employees. There was no charge to Honeywell employees taking the December course.

The Arizona Section advertised the course in their September, October and November newsletters. The prepared flyers that were posted in company bulletin boards. They also contacted other local engineering societies, such as AIAA and SAE, who printed the notice in their newsletters.

They once placed a small advertisement for a PD course at a cost of \$250. They also received coverage of the course in the business column in the same section for free. No one, attending the course, had seen the ad, but several had come because the had read about it in the business column.



- ASME Arizona Technical Series Presents -

## e-Business – “What the Internet Revolution Means to You”

Presented by David Syms, Integrated Information Systems

DATE: November 9, 2000

TIME: 6 pm—Presentation  
7 pm—Refreshments (Cookies & Soda)

COST: \$10—members & non-members  
\$5—students

Location: **APS Building**  
Phoenix, Arizona



400 N 5th Street, Room XXXXX  
Parking available in the Arizona Center Parking  
Garage (Corner of 5th Street and Fillmore).  
(Parking will be validated during presentation).

Are you hooked up to the Internet?  
How about to your suppliers?  
How about to your customers?

Using the Internet has become the newest strategic competitive weapon— as important for business survival as having the best intellectual capability. Today's business must stretch beyond the limits of a single team's capabilities, and leverage the intelligence of the community. Efficiently doing business across company boundaries using the Internet is the biggest factor distinguishing market winners from losers. Development of electronic trade will have far reaching impact to everyone in business— those who embrace this change will thrive.

This session will address the formulation of e-Business strategies to take advantage of the improved access to information that the Internet provides. Topics include opportunity assessment, strategy options, and action plans— with a focus on the importance of creating efficiencies via the Internet as a strategic competitive weapon, and how everyone can participate.

**Please RSVP:**

Contact: Justin Young  
Phone: 602-468-0128  
Email: youngj921@asme.org  
Registration Deadline: November 9th

**Please Note:** This is the 2nd in a series of non-dinner technical presentations designed to meet your needs for more technical topics.

### Professional Development Seminar

#### Fatigue for Engineers

November 18, 2000

On Saturday, November 18<sup>th</sup>, your Arizona Section will present a PD Seminar on *Fatigue for Engineers*. Fatigue, caused by cyclic loading, results in the formation of cracks leading to structural failure. This has been estimated to be the cause of over half of all mechanical failures.

If the material fatigue failures are not part of your regular field of work and you would like to learn more about it, then this is the course for you! The course will provide you an introduction to the fatigue structural failure mode. Being introductory in nature, it is a perfect lead in to more advanced material and further study. See inside for time and location details.

### Holiday Party

Last year's Y2K hoopla was just a warm-up for the true end of the Twentieth Century and the actual beginning of the new millennium!

**This is the real one!**

Let's bring in the Twenty-First Century with a joyous celebration!

Location: APS Building, Arizona Center  
(See map above)

Time: 5:00—8:00 December 14, 2000  
**No Charge! This one is on the section!**

We'll provide the goodies, you provide the fun! **Come on down!**



**Networking - A True story**

An engineer and long time active ASME member recently was downsized by his employer. His company had been going through a difficult business downturn, and had hoped that the necessary reductions could be handled through voluntary incentive separations. Only in late May did the employee get a hint that his job might be in jeopardy. In late June, he found out that he was going to lose his job. His company provided a very generous separation package so he knew that he could take the time needed to do a thorough job search.

The engineer was very fortunate. He had four interviews lined up within four weeks of getting the "bad" news. One was arranged by a recruiter (headhunter), and the other three were as a direct result of networking with ASME contacts. One of those interviews led to a very good job offer that the engineer accepted.

If this very emphatically illustrates the value of networking. And what better network to use than ASME? The position which the engineer accepted was not advertised, so if the network had not existed, the job opportunity would have been missed. This was not the only position in the company filled in this way. Another ASME member was hired about the same time under similar

circumstances. The next time you need to justify your ASME membership to yourself or someone else, think of this.



**Career Development Series  
Course—November 18, 2000  
PD Seminar  
Fatigue for Engineers**

On Saturday, November 18<sup>th</sup>, your Arizona Section will present a Career Development Series Course on *Fatigue for Engineers*.

Location: To Be Announced. Send in your application today, we will contact you!

**Time: 9 AM-3:30 PM**

**Schedule**

9:00—10:30	Class
10:30—10:45	Break
10:45—12:00	Class
12:00— 1:30	Lunch *
1:30— 3:30	Class

\* Participants are responsible for their own lunch. Morning and afternoon refreshments will be provided.

Speaker: Joe Vecera, Honeywell SSO

Joe Vecera, P.E., a Staff Engineer at Honeywell Satellite Systems Operation (SSO) has 21 years experience in mechanical engineering analysis, particularly structural and thermal analysis, including random vibration, fatigue, and fracture mechanics. Joe has a B.S. and M.S. in Mechanical Engineering from Oregon State University and an M.B.A. from Arizona State University. Joe is a Senior Member of AIAA.



**BRAIN TEASER**

Which weighs more:  
A pound of feathers or a  
pound of gold?

This is not a trick question. A pound of feathers weighs more than a pound of gold, for the following reason: Feathers are normally weighed using the US Customary (Avoirdupois) unit, which is 16 ounces, or 7000 grains, or 454 grams. Gold is usually weighed using an Apothecary (Troy) scale where the unit weight is 0.823 avoirdupois pound, which is 13.2 ounces, or 3760 grains, or 273 grams. This shows that you have to be careful of the exact definition of the units you are working with! The loss of one of the Mars Landers as a result of confusion between English and metric units shows this dramatically!

Thanks to Don Kudrna and Lou Lincero, Boeing Rotcraft for this enlightening brain teaser on this extremely important subject. The answer came from Denis New College edition of the American Heritage Dictionary.

**Professional Development Seminar: Fatigue Engineers  
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