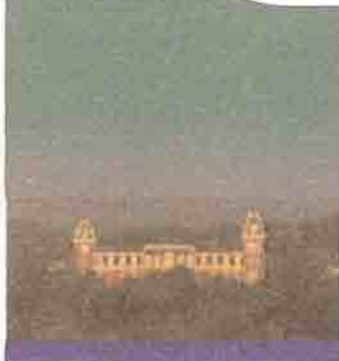


# The Dodecahedron



## *A Fifty Year Legacy - John L. Imhoff*

*(Obituary as appeared in the newspapers)*

John L. Imhoff passed away in Fayetteville, Arkansas, on March 16, 2005, at the age of 82. Born in Baltimore, Maryland, on February 9, 1923, he was the son of John and Elizabeth (Franz) Imhoff. He grew up in the Baltimore area where he attended public schools, and graduated from Baltimore Polytechnic Institute in 1940. He earned a BS in Mechanical Engineering from Duke University in 1945, a MS in Mechanical Engineering from the University of Minnesota in 1947, and a Ph.D. in Industrial Engineering from Oklahoma State University in 1971. Additional educational studies took place at the following: National Science Foundation-Science Faculty Fellowship at Stanford University; National Science Foundation-Summer Industrial Dynamics at Massachusetts Institute of Technology; and Nuclear Engineering Institute at the University of California-Berkeley.



His professional experience included American Rolling Mill Corporation in Baltimore, Maryland (1940-43); U. S. Naval Officer and Diplomatic Courier-European Theater (1945-47); Assistant Professor of Mechanical Engineering at the University of Minnesota (1948-51); and then Professor and Head of Industrial Engineering at the University of Arkansas (1952-90). Since 1990, as an University Professor Emeritus, he continued to teach part-time on global aspects of engineering as a liaison for the Industrial Department Outreach Program.

(See "Imhoff", Page 5)

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## Recruiting Report

Dues reminder . . . Annual dues are due by January 1 of each year, and must be paid no later than the AAIE meeting each Spring to avoid delinquency.

### What is a Dodecahedron?

Dodecahedra were known to the Greeks, and 90 models of dodecahedra with knobbed vertices have been found in a number of archaeological excavations in Europe dating from the Gallo-Roman period in locations ranging from military camps to public bath houses to treasure chests.

This solid was better defined by Johannes Kepler in 1619, when he noticed that the stellated dodecahedrons were composed of "hidden" dodecahedrons and looked like stylized stars.

To the ancient Greeks, the dodecahedron was a symbol of the "Spirit of the Universe." Today, it represents the positive effect engineers have had on our society.

We're right in the middle of recruiting for the fall semester. Most of you received a postcard from the Engineering recruiting team in the last few weeks. It was asking for your help in locating high school students who would make great engineers. Be sure and respond to this if you have children, neighbors, or friends who might be possibilities. Just call in the names and the recruiting group will take it from there. About 2,000 of these postcards have been sent out to active engineering alums.

About 3,900 contacts have been made with students, including ten mailings. So far, 399 students have been admitted to engineering for the fall semester. These include forty-seven chancellor scholars and six national merit scholars. The Walton Fellowships are just now being selected. There will be ten or eleven orientation sessions on campus this summer for the incoming students.

Carol Gattis and Bryan Hill now handle recruiting for all engineering departments. The telephone number for recruiting referrals, or for additional information, is 479-575-7780. The web site is [www.engr.uark.edu](http://www.engr.uark.edu).

Best regards,  
Bill Keltner  
High School Recruiting Chairman

*A Holstein's spots are like a fingerprint or a snowflake.  
No two cows have exactly the same pattern of spots.*

## A Note from the President . . .



Dear Academy members and friends,

The 2005 Annual Meeting in April was a great success. A year sure does pass quickly!

This past year has been an eventful one. We mourn the loss of our good friend, teacher, and mentor, Dr. John Imhoff. He will always be with us in the many memories and shared experiences we all have through our association with Dr. Imhoff and our Industrial Engineering education. Those who attended the memorial heard a tribute to someone we already knew as a remarkable person by Dr. Imhoff's family and Chancellor John White.

With Board approval this year of the John Imhoff Global Studies Endowment and your continued generosity to the AAIE scholarship funds, the Academy will soon surpass a million dollars in endowed funds to provide scholarships to students of Industrial Engineering at the University of Arkansas. That is a remarkable accomplishment even for a dedicated bunch of IE's.

As usual the Annual Meeting was a great time to renew old acquaintances and make some new ones. We had an excellent group of new members inducted this year. Thanks to Chuck Marlin for organizing, and Bill Meadows for the course, we again had our golf outing at Stonebridge Meadows golf course. The weather was perfect (Ah, Spring in Arkansas!), and we have some members who can still hit 'em pretty straight.

(See "President", Page 7)



Nurse, get on the Internet, go to Surgery.com, scroll down, and click on the "Are you totally lost?" icon.

## The Dictionary

What engineers say  
and what they mean by it

Major Technological Breakthrough.

Back to the drawing board.

Developed after years of intensive re-  
search.

It was discovered by accident.

The designs are well within allowable  
limits.

We just made it, stretching a point or two.

Test results were extremely gratifying.  
It works, and are we surprised!

Customer satisfaction is believed assured.

We are so far behind schedule that the  
customer was happy to get anything at all.

Close project coordination.

We should have asked someone else, or,  
let's spread the responsibility for this.

A number of different approaches are  
being tried.

We don't know where we're going, but  
we're moving.

Preliminary operational tests are inconclu-  
sive.

The darn thing blew up when we threw  
the switch.

The entire concept will have to be  
abandoned.

The only guy who understood the thing  
quit.

Modifications are underway to correct  
certain minor difficulties.

We threw the whole thing out and are  
starting from scratch.

Essentially complete.

Half done.

We predict...

We hope to God!

Drawing release is lagging.

Not a single drawing exists.

Serious, but not insurmountable, prob-  
lems.

It will take a miracle. God should be the  
program manager.

Requires further analysis and management  
attention.

Totally out of control.

The delivery is scheduled for the last  
quarter of next year.

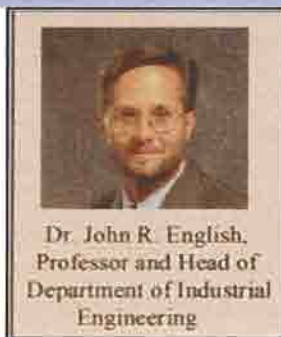
This leaves us plenty of time to decide  
whom to blame for it being late.

## From the Department

Dear Academy Mem-  
bers,

I hope this note finds you well. We have had a relatively mild winter, and a beautiful spring. During the recent University graduation, we presented some outstanding graduates to the profession. It was a great day!

I know that each of you know by now that our dear friend, professor and mentor, Prof. John Imhoff, passed away this spring. We have lost a true champion of industrial engineering. Please join us in remembering the Imhoff family during these challenging times.



Dr. John R. English,  
Professor and Head of  
Department of Industrial  
Engineering

There is no question that our friend, "Dr. John", would want us to look to the future and not the past!

The future of your Department of Industrial Engineering has never looked better. For the second year in a row, the graduate program in industrial engineering has been listed as the 30<sup>th</sup> Best Graduate Program in Industrial

and Manufacturing Engineering by *US News and World Report*. This outcome is the natural result of the hard work and international reputation of the industrial engineering faculty, students, and alumni. This recognition places us amongst the top IE programs in the country!

Also, we have just received word that Prof. Russell Meller, Associate Professor of Industrial Engineering at Virginia Tech, will be joining us this fall as the Hefley Professor in Logistics and Entrepreneurship.

(See "Department", Page 12)

## HEFLEYS ENDOW PROFESSORSHIP IN ENGINEERING

James M. and Marie G. Hefley have made a \$750,000 commitment through a charitable remainder trust to fund an endowed professorship and eventually an endowed chair in the University of Arkansas College of Engineering. The Hefleys' gift will be matched by \$750,000 from funds available through the Matching Gift Program to create a \$1.5 million endowment for the professorship.

The purpose of the

Hefley Professorship in Engineering Logistics and Entrepreneurship will be to attract and retain a highly qualified professor and prominent scholar who will provide academic leadership in logistics and entrepreneurship in the Department of Industrial Engineering. Funds will provide the holder with the resources to further his or her contributions to teaching, research and public service.

Mr. Hefley said: "One

of the key factors in focusing on the link between entrepreneurship and engineering is our belief based on our experience in business that a great many of the new jobs created in the U.S. - as well as overall economic growth - will come from new start-up businesses rather than from large corporations as it has in the past. I feel that IE are graduates well positioned to become entrepreneurs

(See "Hefleys", Page 13)

## Superstitions



◆ It's unlucky to see your face in a mirror by candlelight.

◆ A wish will come true if you make it while burning onions.

◆ If you use the same pencil to take a test that you used for studying the test, the pencil will remember the answers.

◆ If you leave a rocking chair rocking, it invites evil spirits to come into your house to sit in the rocking chair.

◆ You sleep best with your head to the north and your feet to the south.

◆ Seeing a spider run down a web in the afternoon means you'll take a trip.

◆ To kill a raven is to harm the spirit of King Arthur who visits the world in the form of a raven.

◆ To prevent an unwelcome guest from returning, sweep out the room they stayed in immediately after they leave.

### Did you know . . .

In the late 1700s, many houses consisted of a large room with only one chair. Commonly, a long wide board was folded down from the wall and used for dining. The "head of the household" always sat in the chair while everyone else ate sitting on the floor. Once in a while, a guest (who was almost always a man) would be invited to sit in this chair during a meal. To sit in the chair meant you were important and in charge. Sitting in the chair, one was called the "chair man." Today in business we use the expression or title "Chairman or Chairman of the Board".

## Mrs. John Imhoff Dies

(Obituary as appeared in the newspapers)

Lois J. Imhoff, 79, of Fayetteville died Saturday, May 21, 2005, in Fayetteville.

She was born December 19, 1925, in Lexington, Kentucky, to Edwin Charles and Henrietta R. Johnson. She grew up in Lexington, St. Paul, Minnesota; Alexandria, Virginia; and Kansas City, Missouri, where she graduated from Southwest High School. She graduated with a bachelor's degree in business administration from Duke University in Durham, North Carolina. She worked for Hallmark Brothers Inc., Pratt and Whitney Inc., the U.S. Air Force, and Woodward and Lothrop prior to her marriage to professor John L. Imhoff, who preceded her in death on March 16, 2005. They moved to Fayetteville in 1952, where they raised a family.

Lois Imhoff became a civic leader in Fayetteville, and later an active conservationist in the state of Arkansas. Locally, she served as a justice of the peace on the Washington County Quorum Court, on the Advisory Council for the Single Parent Scholarship of Washington County, and on the Citizens Advisory Board of Northwest Rehabilitation Hospital. She received the Woman of the Year award in 1989 from the Fayetteville Business and Professional Women. She also was a commissioner on the Northwest Arkansas Regional Citizen Advisory Commission; vice-chair for the city of Fayetteville's Citizen Advisory Committee on Municipal Waste-water Planning; and a member of the city's Pollution Control and Energy Committee.

At the University of Arkansas, she was a special projects assistant in the Office of Development. She also served as a director of the Fayetteville United Fund; director of the NOARK Girl Scout Council; and as a member of Fayetteville Business and Professional Women, Central United Methodist Church, Twentieth Century Literary Club, Highlands Chapter of the Ozark Society, White River EPA of Northwest Arkansas, Washington County Democratic Women, Fayetteville Garden Club and the American Association of University Women.

In 2000, she received the Fayetteville Women's History Month award by Altrusa International. She served the state of Arkansas as a funding trustee for the Arkansas Nature Conservancy field office. She was president of the Arkansas League of Women Voters, secretary of the Ozark Society, vice president of the Arkansas Energy Conservation Coalition, a VISTA volunteer for the Arkansas Ecology Center, a member of the Governor of Arkansas State Police Advisory Committee on Water Quality, a member of the Governor of Arkansas Resource Management Council, a member of the board of directors of the Arkansas Wildlife Federation, a member of the Arkansas Game and Fish Commission Advisory Council, a member of the board of directors of the Arkansas Solar Coalition, and a member of the North Arkansas Highland Trail Association.

She received the Neil Compton Award from the Ozark Society for her work as secretary of the society from 1963 to 1972, and for her leadership during those years when the Buffalo National River status was achieved.

She also served nationally as a member of the Environmental Quality Committee of the League of Women Voters and the State Advisory Council of the U.S. EPA, Region V1.

(See "Mrs. Imhoff, Page 5)



("Imhoff"—cont'd from Page 1)

Golden treasures I contain,  
 guarded by hundreds and  
 thousands. Stored in a  
 labyrinth where no man  
 walks, yet men come often  
 to seize my gold. By smoke  
 I am overcome and robbed,  
 then left to build my treas-  
 ure anew. What am I?

(Answer on Page 14)

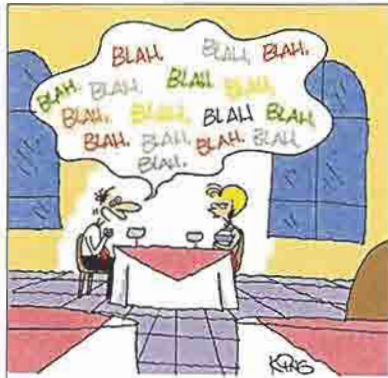
While at the U of A at Fayetteville, John helped found the Department of Industrial Engineering; consulted extensively for corporation and the Arkansas state government; helped to establish and became Director of the U of A Productivity Center; established one of the country's first successful Master of Science Degrees in Operations Research; participated in the development of the Graduate Institute of Technology Program in Little Rock, Arkansas; helped develop the Master of Science in Operations Management program for Air Force bases in Blytheville and Jacksonville, Arkansas, and the Naval Air Station in Memphis, Tennessee; and established and developed U of A student chapters of the Institute of Industrial Engineers and Alpha Pi Mu (National Student Honor Society).

All of the above efforts resulted in an exceptional number of U. of A. engineering graduates who achieved prominence in industrial, commercial, and educational professional careers. Also, most gratifying to John was the large number of alumni who maintained close ties with the University, and provided strong networking support.

The Department he founded played an important role for many years, not only for Industrial Engineers, but also for engineering graduates of all disciplines.

After retiring as department head, he devoted his efforts to full-time teaching; the development of a U of A productivity center to assist in state economic development activities; developed a cooperative network in Arkansas with the Small Business Administration; conducted research in the U. S. and Europe on productivity enhancement activities of business and governmental units of all countries; was a founding member and officer of the National Productivity Network; a founding member of the Arkansas Center for Technology Transfer; chairman and member of the U. S. Senate Productivity Award Boards for Senators Pryor and Bumpers; and he was the founding member of the Arkansas Quality/Productivity Task Force, which is now the Arkansas Industrial Development Commission. Arkansas productivity initiatives and ideas were later extended nationally by President Bill Clinton.

(See "Imhoff", Page 14)



The word SILENT contains exactly the same letters as the word LISTEN

What kind of rocks are at the bottom of the Amazon River?  
 (answer below)



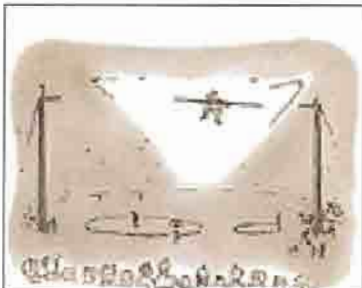
Wet rocks

(Mrs. Imhoff—cont'd from page 4)

In addition to serving her community, Lois enjoyed traveling, gardening, hiking, canoeing, weaving, and quilting. She left a legacy of turning vision into reality.

She is survived by two sons, Dr. John E. Imhoff and his wife, Susan M., of Sea Island, Georgia and Carl H. Imhoff and his wife, Kristen S., of Richland, Virginia; a daughter, Karen E. Anderson and her husband, Richard B., of Weston, Connecticut; and five grandsons, John C. Anderson, John C. Imhoff, Daniel H. Imhoff, Kurt S. Imhoff, and Robert C. Imhoff.

A memorial service was held at 2:00 p.m., Saturday, June 25, 2005, in the Convocation Room at Butterfield Trail Village in Fayetteville. To sign the online guest book, visit [www.nelsonberna.com](http://www.nelsonberna.com). Memorials may be made in her honor to the Fayetteville Public Library, Read A Loud collection.



"It appears to be some kind of wireless technology."

Idle Thoughts of a Retired Person whose Mind Wanders...

Protons have mass? I didn't even know they were Catholic.

A "free" gift? Aren't all gifts free?

Teach a child to be polite and courteous in the home and, when he grows up, he'll never be able to merge his car onto a freeway.

Two can live as cheaply as one, for half as long.

Experience is the thing you have left when everything else is gone.

What if there were no hypothetical questions?

One nice thing about egotists: They don't talk about other people.

When the only tool you own is a hammer, every problem begins to look like a nail.

A flashlight is a case for holding dead batteries.

What was the greatest thing before sliced bread?

My weight is perfect for my height – which varies.

The cost of living hasn't affected its popularity.

Is there another word for synonym?

Where do forest rangers go to "get away from it all"?

Is it possible to be totally partial?

What's another word for the-saurus?

If swimming is so good for your figure, how do you explain whales?

Is it my imagination, or do buffalo wings taste like chicken?

John L. Imhoff Global Studies Endowment



The following is a summary of the implementation progress of the John L. Imhoff Global Studies Endowment (GSE) since the AAIE 2004 Annual Meeting:

July 24, 2004

•The AAIE Board approved the AAIE responsibilities described in the GSE Charitable Remainder Trust Gift Agreement.

•The AAIE Board approved a transfer of \$25,000 from the AAIE General Fund to the GSE Fund to formally qualify the GSE as an endowment per U of A Foundation requirements.

September 4, 2004

John and Lois Imhoff committed \$300,000 to the GSE endowment in the form of a Charitable Remainder Trust.

February 4, 2005

The Board reviewed and approved the scholarship recipient criteria as follows:

- Minimum 60 hours completed, with 30 at U of A
- Minimum 2.5 GPA
- Submit application by 5th week of preceding semester
- Submit essay summarizing reasons for proposed overseas experience
- Evaluated on academic merits and performance in relevant courses

April 5, 2005

The IE Department received two student applications for consideration of GSE scholarships and submitted the applicant essays to the GSE Implementation Committee for review and presentation to the AAIE Board Meeting on April 9, 2005.



From left to right:  
Dr. Edward Pohl  
Jennifer Davidson  
Vivian Careagas  
Bill Denton





### Galileo's Compass

This is one of the proportional compasses made by Galileo from 1597 onwards. It was a sophisticated and versatile calculating device which made possible the calculations of geometrical and arithmetical operations by comparing the sides of similar triangles. Galileo saw four main uses of his compass: (1) as a bomber's sight [see below]; (2) calculation of the height of a star above the horizon; (3) measuring the inclination of the slopes of a wall; and (4) calculation of the height of a star above the horizon.



Using Galileo's compass for sighting bombs

The use for which the instrument was in demand was as a bomber's sight. One of its sides was placed in the barrel after having first suspended the thread along the perpendicular from the center. It was then this thread which would indicate the elevation of the barrel.

## 2005 Industrial Engineering Awards Banquet, April 19, 2005 In loving memory of Dr. John Imhoff, 1923 - 2005

Representing the Arkansas Academy of Industrial Engineering, Dr. Palmer Terrell and Bill Denton were among the presenters at the Industrial Engineering Awards Banquet, recently held at the Fayetteville Town Center.

### Among the numerous awards given are the following:

ABF Freight System, Inc. Outstanding Freshman Award, Fall 2004 – Jared Townsley  
Hytrol Challenge Award, Fall 2004 – David deLassus & Leslie Kohler  
Eagle Award of Excellence, Materials nxHHandling, Spring 2005 – Lona Less & Jessica Sandage  
2004 Undergraduate Research Award-Jason Honeycutt  
2004 Graduate Research Award-Thomas Yeung  
2005 Outstanding Graduate Student-Mohammad Al-Rifai  
2005 Outstanding Senior-Jose Reyes

### Scholarships were given as follows:

John L. Imhoff Global Studies Scholarships  
Vivian Careaga & Jennifer Davidson

### 2005-2006 Industrial Engineering Scholarships

#### Returning Graduate Students

Kellie Schneider - *Malstrom Memorial Scholarship*  
Thomas Yeung - *Malstrom Memorial Scholarship*

#### Freshmen

Brent Carter - *AAIE Scholarship*  
Jorja Haller - *AAIE Scholarship*  
Julia Humphrey - *AAIE Scholarship*  
Daniel Malm - *William Bradley Scholarship*  
Brian Miller - *AAIE Scholarship*  
Kim Nguyen - *AAIE Scholarship*  
Brandon Zinser - *AAIE Scholarship*

#### Sophomores

Nachi Das - *AAIE Dana and Christie Sedgass Scholarship in honor of Hamdy Taha*  
Wenfeng Li - *John D. Selig Scholarship*  
Roger Snelgrove - *AAIE Ron and Betty Morris Scholarship*

#### Returning Seniors

David Caballero - *AAIE Bill and Mary Lou Cravens Scholarship*  
Vivian Careaga - *David and Nancy Foust Scholarship, AAIE Endowed Scholarship*  
Mauricio Carrasco - *John and Lois Imhoff Scholarship*  
Shawn Chopper - *AAIE Lowrance and Marilyn Hodge Scholarship*





Bronze; 8.3 x max. 1.8 cm  
Pompeii  
First century AD

This instrument, the circinus, was made of two legs in a plane, and found great use with the masons and carpenters, and also in wall decoration, for the execution of repetitive elements like spirals or circles.

\*\*\*



Maker unknown  
Date: 16<sup>th</sup> C.  
Place: Italian

Materials: Brass, steel;  
case is cardboard

Dimensions: Length 300 mm

The compass is housed in a cylindrical cardboard case. There are the following steel accessories: two straight pointed rods for recording measurements (dividers), two curved rods for measuring diameters (spherical compass), tweezers, a pencil holder, a paper-cutter, and a small toothed wheel to perforate paper for pouncing. The accessories were attached to the molded brass legs by means of steel clamps. A note in the case stated that the instrument belonged to Michelangelo Buonarroti.

("Banquet" - continued from Page 8)

### Returning Seniors

Jennifer Johnson - *David and Nancy Foust Scholarship*  
 Brittany Judy - *AAIE Ron and Betty Morris Scholarship*  
 Kyle Kimpel - *AAIE Jim and Jane Townsend Scholarship*  
 Lona Less - *AAIE Wayne and Bonnie Crandell Scholarship*  
 Evan McCall - *AAIE Jim and Pat Hubbard Scholarship, Ron and Betty Morris AAIE Endowed Scholarship*  
 Dan Parrish - *AAIE Scholarship*  
 Jessica Sandage - *John English Family Scholarship*  
 Tiffany Simon - *AAIE David and Nancy Foust Scholarship*  
 Christopher Stewart - *AAIE Alice and Palmer Terrell Scholarship*  
 Kristen Wilkins - *AAIE Fred Hardwick Scholarship*

### 2005-2006 Incoming Freshmen & Transfer Students

William Cranford - *AAIE John Imhoff Memorial Scholarship*  
 Christopher Elkins - *AAIE Scholarship*  
 Stephan Konz - *AAIE Ron and Betty Morris Scholarship*  
 Justin Robertson - *AAIE Scholarship in honor of Mike and Mary Shupe*  
 Stevenson Sharp - *AAIE Scholarship in honor of Bill and Margaret Harrison*

### 2004-2005 Points of Pride

Rodrigo Barrenechea and Mario Rioja - *2005 Porter Stone Award for Outstanding Performance in the College of Engineering Cooperative Education program*  
 Lauren Chambers - *U.S. Department of Homeland Security Science and Technology Scholarship*  
 Thomas Duncan - *Honors College Undergraduate Research Grant*  
 Stephen Farris - *Modeling and Simulation Best Paper Award, 2004 IIE Annual Conference*  
 Jason Honeycutt and Leslie Kohler - *Material Handling Education Foundation Scholarship*  
 Jason Honeycutt - *Quality Control and Reliability Best Paper Award for the 2004 IIE Annual Conference*  
 Kevin Oden - *2005-2006 IIE Dwight D. Gardner Scholarship*

### Juniors

Jamie Gambill - *AAIE Harry Merritt Memorial Scholarship*  
 Gregory Giesecke - *Taft-O'Neal-Geels Scholarship*  
 Richard Penn - *AAIE Scholarship in honor of Ray Asfahl*  
 Lindsey Walker - *AAIE Scholarship*  
 Jimmy Xu - *Taft-O'Neal-Geels Scholarship*  
 Jason Honeycutt and Leslie Kohler - *Material Handling Education Foundation Scholarship*  
 Kevin Oden - *2005-2006 IIE Dwight D. Gardner Scholarship*

### *The Darndest Things About History. (But true.)*

In George Washington's days, there were no cameras. One's image was either sculpted or painted. Some paintings of George Washington showed him standing behind a desk with one arm behind his back while others showed both legs and both arms. Prices charged by painters were not based on how many people were to be painted, but by how many limbs were to be painted. Arms and legs are "limbs." Therefore, painting them would cost the buyer more. Hence the expression. "Okay, but it'll cost you an arm and a leg".

As incredible as it sounds, men and women took baths only twice a year (May and October)! Women kept their hair covered, while men shaved their heads (because of lice and bugs) and wore wigs. Wealthy men could afford good wigs made from wool. The wigs couldn't be washed, so to clean them they carved out a loaf of bread, put the wig in the shell, and baked it for 30 minutes. The heat made the wig big and fluffy, hence the term "big wig". Today, we often use the term "here comes the Big Wig" because someone appears to be or is powerful and wealthy.

In the late 1700s, many houses consisted of a large room with only one chair. Commonly, a long wide board was folded down from the wall and used for dining. The "head of the household" always sat in the chair while everyone else sat on the floor. Once in a while, a guest (almost always a man) would be invited to sit in this chair during a meal. This meant you were important and in charge. Sitting in the chair, one was called the "chair man". Today, we use the expression "Chairman or Chairman of the Board".

(Continued next page)



## 2004 AAIE Liaison Committee Report

The 2004 Liaison Committee Report was completed and submitted to Dr. John English and AAIE President Dewey Freeman on July 7, 2004. The report format and committee selection proposed by Dr. English proved to be highly successful for purposes of ABET evaluation and for developing improved relations with local industries with the potential to hire our graduates. The Liaison Committee recommended use of a similar format in future evaluations.

### 2005 AAIE Liaison Committee Report

The 2005 AAIE Liaison Committee met at the Industrial Engineering Department on February 18, 2005. Three of the committee members were not graduates of the University of Arkansas and were selected for their ability to lend an objective perspective to the evaluation of the IE Department. The 2005 Liaison Committee members are listed as follows:

- Bill Denton, Arkansas 1976, 2003-2004 Immediate past President & Chairman Liaison Committee
- Dewey Freeman, Arkansas 1974, 2004-2005 President and Assistant Chairman Liaison Committee
- David Elizandro, Arkansas PhD 1974, Professor of Industrial Engineering, Tennessee Tech University, Cookeville, Tennessee
- David Humphery, Arkansas 1982, Director, Investor Relations Arkansas Best Corporation, Fort Smith, Arkansas
- Gary Maxwell, Sr. Vice President, Merchandise Replenishment Wal-Mart Stores, Inc., Bentonville, Arkansas
- Mark Wellman, Category Management Account Executive, Proctor and Gamble Distributing Company, Fayetteville, Arkansas
- Gary Whicker, Senior Vice President, Engineering Services J. B. Hunt Transport, Inc., Lowell, Arkansas

The 2005 Liaison Committee Report is currently in draft form and is scheduled for completion during July 2005.

Presented April 9, 2005 by Bill Denton  
AAIE Annual Meeting and Board Meeting  
Holiday Inn Northwest Arkansas, Springdale, Arkansas

## AAIE Inductees



The IE graduates shown were inducted as members of the AAIE at the Annual Meeting held on April 8th and 9th at the Springdale Holiday Inn Convention Center. From left to right, Chris Holmes, Brett Peters, Jim Burgin, Bernie Skoch, James Alexander, Mike Limbird, and Jennifer Karber.

## Scholarship News

(Darndest Things—  
con't from previous page)

Common entertainment included playing cards. However, there was a tax levied when purchasing playing cards but only applicable to the "ace of Spades". To avoid paying the tax, people would purchase 51 cards instead. Yet, since most games require 52 cards, these people were thought to be stupid or dumb because they weren't "playing with a full deck."

...  
I think you will find this one interesting! Early politicians required feedback from the public to determine what was considered important to the people. Since there were no telephones, TV's or radios, the politicians sent their assistants to local taverns, pubs, and bars who were told to "go sip some ale" and listen to people's conversations and political concerns. Many assistants were dispatched at different times. "You go sip here" and "You go sip there". The two words "go sip" were eventually combined when referring to the local opinion and, thus we have the term "gossip". ...

At local taverns, pubs, and bars, people drank from pint- and quart-sized containers. A bar maid's job was to keep an eye on the customers and keep the drinks coming. She had to pay close attention and remember who was drinking in "pints" and who was drinking in "quarts", hence the term "minding your P's and Q's".



"Okay, I'm sitting. What is it?"

### Financial Need Scholarship Fund

Total contributions from all sources now exceed \$132,000. Thanks to the thirty-seven members who have made contributions to this fund. Several continuing and new contributions were received around the end of 2004. Additional contributions are anticipated during the AAIE Annual meeting.

The first AAIE Financial Need Scholarship and the first Ron and Betty Morris Financial need Scholarship were awarded during the IIE/APM Awards Banquet last April. The University's Office of Financial Aid must first certify an applicant as having a financial need. Then the student competes on the basis of academic merit determined by the Department.

Please consider an additional or first time contribution to this fund as we progress toward the \$300,000 goal. Please direct your future scholarship contributions to the financial need scholarship fund. Make your checks payable to the U. of A. Foundation with a notation for this fund, and mail to Karen Hendrix, Accounting Technician in the Industrial Engi-



neering Department.

### AAIE Scholarship Fund

AAIE Scholarships awarded each April at the IIE/APM Awards Banquet are from the earnings of this, our original scholarship endeavor. Having exceeded our goal of \$500,000 we are able to assist twenty to thirty students each year. This scholarship fund continues to receive contributions: however, we request that you now direct your contributions to the AAIE Financial Need Scholarship Fund.

### AAIE Named Scholarships

At the Annual Banquet in April, Dana and Christie Sedgass will be recognized for their second named scholarship to be presented in honor of Hamdy Taha during the next IIE/APM Awards Banquet.

Two couples are close to the \$10,000 total

contribution level that will fund one or more scholarships in their name. Also, there are five or so that are not too far behind. As a reminder, when your personal contribution total reaches a sum of \$10,000, a \$500 named scholarship is presented to a deserving student each year. If you have a company match, a second named scholarship is awarded.

### Special Scholarship Recognition

An additional AAIE Harry Merritt Memorial Scholarship will be awarded at the next Awards Banquet. When scholarship donations in memory of a deceased member total \$500, the Academy presents a one-time memorial scholarship award in their name.

### John Imhoff Fellows

Thanks to the 68 John Imhoff Fellows who have made contributions of \$1,000, or more, to our scholarship funds. New Fellows to be recognized by class during the AAIE Annual Banquet in April were: Class of 1993, Tommy and Susie Walker, Jr.; and Class of 2004, Ron D. and Debra Morris, and Ralph G. Brodie.

# X

## Marks the Spot

There was an engineer who had an exceptional gift for fixing things mechanical. After serving his company loyally for more than thirty years, he happily retired. Several years later, the company contacted him regarding a seemingly impossible problem they were having with one of their multi-million dollar machines.

They had tried everything and everyone else to get the machine to work but to no avail. In desperation, they called on the retired engineer who had solved so many of their problems in the past. The engineer reluctantly took the challenge. He spent a day studying the huge machine. At the end of the day, he marked a small "x" in chalk on a particular component of the machine and stated, "This is where your problem is."

The part was replaced and the machine worked perfectly again. The company received a bill for \$50,000 from the engineer for his service. They demanded an itemized accounting of his charges.

The engineer responded: "One chalk mark: \$1; knowing where to put it: \$49,999."

## ABF FREIGHT SYSTEM CREATES DOCTORAL FELLOWSHIPS

One of the nation's largest transportation companies, ABF Freight System Inc., based in Fort Smith, has provided \$100,000 to the University of Arkansas College of Engineering for the establishment of two endowed fellowships.

The gift will be matched by \$100,000 from the Matching Gift Program to create a \$200,000 endowment. The ABF

Freight System Doctoral Fellowships in Industrial Engineering will help attract and retain highly qualified doctoral candidates in industrial engineering.

Dr. Ashok Saxena, Dean of the College of Engineering, said, "The quality of a Ph.D. program is a leading indicator of a nationally competitive research university. We are grateful to ABF Freight System for this gift, which will go a long way toward strengthening our graduate program and maintaining our place among the ranks of America's leading departments."

Dr. John R. English, Professor and Department Head, said, "A major focus of our department, and the University of Arkansas as a whole, is to increase the number of Ph.D. graduates. The ABF Freight System Doctoral Fellowships in Industrial Engineering will help by providing support to two Ph.D. students specializing in areas that support the transportation industry, such as logistics, transportation planning, and network design."

Bob Davidson, President and CEO of ABF said, "Over the years, it has been our pleasure to have a strong association with the University of Arkansas. We have been fortunate to employ many graduates of the University, a large number with degrees in Industrial Engineering. These graduates have been well-prepared for the business environment with keen minds, sound business ethics, good interpersonal skills, intellectual curiosity and strong work ethic. These individuals have contributed heavily to the success of our company."

(See "ABF", continued on Page 14)



("Department" - cont'd from Page 3)

I know that you will join me in thanking Jim and Marie Hefley for this remarkable gift to the department. Such endowments enable us to hire the finest faculty members in the world. Our ability to recruit such outstanding talent is a tribute to the faculty, students, staff, and alumni who have built this fantastic tradition of Industrial Engineering at the University of Arkansas.

When you meet Dr. Meller in the future, make sure that you greet him, his wife Sue, and their daughter Grace with a warm "Razorback" welcome that lets them know they are welcome to their new community.

I hope that you have a great summer! Please stop by and see us when you are in NWA.

John

A mathematician, a physicist, and an engineer were all given a red rubber ball and told to find the volume.

The mathematician carefully measured the diameter and evaluated a triple integral.

The physicist filled a beaker with water, put the ball in the water, and measured the total displacement.

The engineer looked up the model and serial numbers in his red-rubber-ball table.

("Hefleys" - con't from Page 3)

in this new environment, and to be able to partner effectively with colleagues in marketing, finance and law to form start-up "business teams" to be able to commercialize technical innovation. We believe this professorship and chair will lead the way in providing students in the College of Engineering with far better academic preparation to succeed in this technically oriented, start-up business environment of the future. We also feel this emphasis is strongly in concert with the spirit of the Matching Gift Program relative to economic enhancement in the State. We also want to thank the Walton family for their generosity, which will allow our gift to have a much larger impact."

UA Chancellor John A. White said: "The ability to attract and retain high-caliber faculty to the University of Arkansas depends on the generosity of people like Jim and Marie Hefley. Their commitment to the future of the College of Engineering will go a long way toward ensuring we have the funds necessary to remain nationally competitive. I'm

personally grateful for Jim's friendship, leadership and support. I am always pleased when the University receives financial support from our alumni, but I am particularly gratified when it comes from someone who was both a classmate and a friend during our college years."

College Dean Ashok Saxena said: "We are indebted to the Hefleys for their support of College of Engineering. The endowed professorship they have established will be a valuable tool for us in recruiting and retaining the best industrial engineering faculty and supporting their efforts in cutting-edge areas of research. These accomplished faculty will in turn attract the best students bringing us closer to realizing our goal of being a top-tier engineering college."

The Matching Gift Program, made possible by the Walton Family Charitable Support Foundation's \$300 million gift to the University of Arkansas, set aside matching funds for certain student endowments and faculty endowments that show promise for enhancing economic competitiveness in Arkansas. Charitable remainder

trusts, insurance gifts and other forms of irrevocable planned gifts may be eligible for gift matching thus giving the benefactors an opportunity to significantly leverage their gifts with an immediate benefit. As the endowment for this professorship grows, it will eventually be converted into an endowed chair.

Mr. Hefley is a 1961 B.S.I.E. graduate of the College of Engineering and a member of Sigma Alpha Epsilon fraternity. After a career in business management, he joined Gemini Consulting, becoming senior vice president, and is currently a retired partner of the same firm. Mrs. Hefley is a graduate of the College of St. Elizabeth, and is retired after a management career with IBM.

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Associate yourself with men of good quality if you esteem your own reputation for 'tis better to be alone than in bad company.

—George Washington

Lethargy (is) the forerunner of death to the public liberty.

—Thomas Jefferson

Without friends no one would choose to live, though he had all other goods.

—Aristotle

In taking revenge, a man is but even with his enemy; but in passing it over, he is superior.

—Sir Frances Bacon

A little neglect may breed mischief: For want of a nail the shoe was lost; for want of a shoe the horse was lost; and for want of a horse the rider was lost. —

Poor Richard's Almanac, 1757

**We're on the  
web!**  
[www.ineg.uark  
.edu/aaie](http://www.ineg.uark.edu/aaie)

### AAIE Officers/Board

The AAIE Board of Directors met on February 4, 2005 and voted to accept the following slate of officers for 2005-2006.

#### Officers

Pres. **Bill McKamey**  
Pres.-Elect **Andrea Sandage**  
Sec'y-Treas. **Curtis Sawyer**  
Past-Pres. **Dewey Freeman**

(Answer to riddle on page 5)



A beehive

THE DODECAHEDRON is a publication of the Arkansas Academy of Industrial Engineering, and the views expressed are those of the AAIE only and do not reflect the official view of the University of Arkansas, the College of Engineering, or the Department of Industrial Engineering. THE DODECAHEDRON is published semiannually and is intended for the membership of the Arkansas Academy of Industrial Engineering.

You may contact the editor at [wbdenton@swbell.net](mailto:wbdenton@swbell.net).

("Imhoff"—con't from Page 5)

During his active career, John was the recipient of numerous university and community awards. They include: University of Arkansas Distinguished Award in Teaching; Institute of Industrial Engineers Fellow Award; Engineering College Halliburton Award for Teaching Excellence; numerous Industrial Engineering Department Outstanding Teacher Awards; John L. Imhoff Distinguished Chair in IE established by the IE Alumni in 1983; honorary member of the Arkansas Academy of Industrial Engineering; founding member of the University of Arkansas Teaching Academy; Duke University College of Engineering Distinguished Alumni Award; Who's Who in America; Who's Who in Engineering; American Men of Science; Who's Who in Education; and founding member of the Ozark Society.

John leaves behind a loving family plus many friends and students who will always remember two of his favorite quotes: "Raison D'Etrel" (a reason to be) and "A Votre Service" (to serve others).

John is survived by his two sons, John E. Imhoff and his wife, Susan, of Sea Island, Georgia, and Carl H. Imhoff and his wife, Kristin, of Richland, Washington; a daughter, Karen Anderson and her husband, Richard, of Weston, Connecticut; five grandsons, John C. Anderson, John C. Imhoff, Daniel H. Imhoff, Kurt S. Imhoff, and Robert C. Imhoff.

A memorial service was held at 2:00 p.m., Saturday, April 2, 2005, at Butterfield Trail Village.

(ABF-cont'd from Page 12)

Established in 1923, ABF is one of North America's oldest and most reputable motor carriers. It continues to be recognized as a benchmark for safety, security, technology and freight-handling standards. Last year, the American Trucking Association awarded ABF the Excellence in Security Award, the 28<sup>th</sup> time that ABF has been recognized by the organization since 1971. ABF's emphasis on quality and value was cited by Logistics Management magazine, which awarded the carrier a 2004 Quest for Quality Award. And ABF was twice recognized by CIO magazine for innovative excellence in information technology, earning the 2005 CIO Enterprise Value Award for the transportation industry and a spot on the 2004 CIO Top 100 Agile Companies list. ABF is the largest subsidiary of Arkansas Best Corporation (Nasdaq: ABFS).