

# ENGINEERING

# TECHNOLOGY

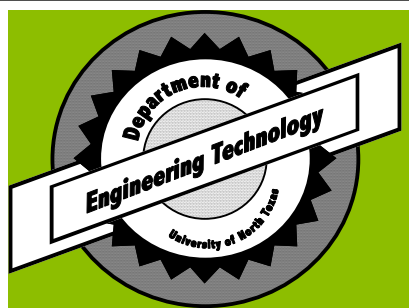


## *a GLANCE*

### Engineering Technology Newsletter

Department of Engineering Technology

University of North Texas



### Chair's Message



Dr. Albert B. Grubbs, Jr.

It has been a year since our last newsletter and I wish to report on recent developments. The new College of Engineering is fully functioning as an academic unit. The Dean's Office has been staffed with two associate deans and administrative assistants. The three founding departments have been working hard to assist in the startup of the college to make sure it has a great footing for its future development.

Phone: (940) 565-2022  
 Fax: (940) 565-2666  
 E-mail: <ETEC@UNT.EDU>

#### Issue Highlights

Topic	Page
Alumni Update	9
ASHRAE Student Chapter	3
ASME at UNT	2
Biomedical Optics	5
CENG Executive Committee	10
Chair's Message	1
Collaborative Visit	6
ELET IAB Meeting	7
Engineers' Week	12
Environmental Scan	10
ETEC Web Site	4
Faculty Dinner	11
Featured ELET Graduate Assistant	4
Featured MEET Graduate Assistant	4
Field Emission	8
First CENG Faculty Meeting	11
IEEE Student Chapter	3
Lab Developments	8
Liquid Nitrogen Automobile	6
Master's Thesis: Padma Parakala	4
NASA Faculty Fellowship	5
New Faculty Member	7
NUET IAB Meeting	7
Our New Home	11
Outstanding Alumni	9
Outstanding Students	4
Pulse Oximetry	5
Real World Background Luminance	5
Scholarships Awarded	2
SEM/EDS	8
SME Student Chapter	3
Software Donation	5
Sound Cancellation	6
Student Engineering Council	4
Student Research & Publications	2
SWE	2
Tau Alpha Pi	2
TXU Research Project	8
TXU Update	6

Approximately 60% of the department's activities were moved to the Research Park, located north of the main campus. The remaining laboratories in the area of manufacturing, fluids, thermal, plastics, foundry and mechanical design are still located in the Engineering Technology Building on the main campus. We are interconnected via a four lane road and university bus service. Telecommunication provides the connections for interoffice communications and library services.

Most students I have asked are pleased with the new campus. Although the mechanical and manufacturing laboratories are still located on the main campus, students and faculty conduct classes at the Research Park in new classrooms when feasible.

ETEC has been active in sponsoring engineering events to bring visibility to our programs and aid in recruiting. This year those activities included National Engineers Week, Boosting Engineering Science and Technology (BEST) Robotics Contest, and the upcoming annual engineering banquet. We are also present at many off-campus recruiting events throughout Texas for both undergraduate and graduate programs.

With the new college, there is an increased emphasis on research to include both undergraduate and graduate students. It is hoped that students will become even more proficient in the applications of technologies relevant to their fields of study. Partnerships with industry for sponsored projects are an important aspect towards success of this endeavor. Please contact me if you have any needs suitable for student or faculty projects.

It is difficult to predict what will be the future competencies for engineering technologists. We are designing new learning experiences to incorporate project management, finance and other business aspects to increase future opportunities in graduate education and professions for our graduates. Total Quality Improvement involving a commitment towards assessment has become a component of the desire to have the best engineering technology in the state and region. I especially like a comment made recently by one of our industrial partners

Editor: Michael R. Kozak

*A Newsletter for and about Alumni. Family. Friends and Faculty*

that engineering technologists should be technology integrators capable of making good business decisions.

Your comments, advice and assistance are always welcome. Please call if you would like to participate in our program activities and if we can be of assistance to you or your company. I would especially like to hear from former engineering technology students regardless of where you obtained your degree.

As you read the remaining portions of this newsletter, I am sure you will agree that we have made progress in developing our department and activities. Be prepared for more of the same when I provide an update next year.

**Albert B. Grubbs Jr., Ph.D.** Chair and Professor Department of Engineering Technology P.O. Box 310679 - 3940 North Elm Street University of North Texas Denton, Texas 76203 Phone: (940) 565-2022 Email: [grubbs@unt.edu](mailto:grubbs@unt.edu)

## ASME at UNT



Officers of the ASME Student Chapter were elected on February 17, 2003: President - Ken Crane; Vice-President - Joey Horn; Secretary - Aaron Mahleke. Mr. Frank Armstrong was nominated and selected by the ASME Dallas Chapter as the Engineer of the Year. Frank and his team in the Senior Design class designed and built a Heat Exchanger Analyzer that will be used in the Thermal Science Laboratory. Congratulations to Frank for his election and many thanks for his leadership in making the design project a success.

**Dr. Seifollah Nasrazadani**  
Faculty Advisor

## Tau Alpha Pi



Tau Alpha Pi is the national honor society for engineering technology, founded in 1953. Managed by the American Society for Engineering Education it has 93 active chapters. The Texas Iota Chapter was established in 1996.

Newly elected members were recognized at the 2003 annual department banquet. Dr. Oscar Garcia, Founding Dean of the UNT College of Engineering, was elected an Honorary Member of the UNT Chapter.

Officers for 2003 - 2004 are:

President..... Adam Hobson  
Vice President..... Josh Stohl  
Secretary..... William Rose

**Michael R. Kozak**  
Faculty Advisor

## SWE



The Society of Women Engineers Student Chapter was established on the UNT campus in the Spring of 2003 by ten student members. Membership increased to 18 by the Fall 2003 semester. Haritha Namduri is the first President of the SWE UNT Student Chapter.

The main purpose of this chapter is to encourage women engineers and inform young women, their parents, counselors, and the general public, of the qualifications and achievements of women engineers and the opportunities open to them. Student members are from Materials Science and Engineering, Mechanical and Electronics Engineering Technology and Computer Science and Engineering.

There have been four general council meetings to plan and implement various community welfare activities. One such activity was the participation of SWE students at the Girl Scouts Science Fair at the University of Texas at Arlington. The UNT SWE Chapter is coordinating the Denton Girl Scouts Science Fair at UNT in July 2004.

**Ms. Leticia Anaya**  
Faculty Advisor

## Scholarships Awarded



A total of 12 scholarships have been awarded at the Departmental level to Engineering Technology majors.

The following scholarships were awarded Spring 2003 for Fall 2003 and Fall 2003 for the Spring 2004 Semester:

**William J. Bell** - Vivek Jain; **Boeing Electronics** - Adam Hobson & Oluwayomi Adamo; **Fritz Roberson** - Padma Parakata; **Jude Thaddeus** - Padma Parakata; **President's Council** - Padma Parakata; **President's Excellence** - Padma Parakata; **Departmental** - Swathi Dhoopati, Mehul Baxi, Preeti Nagarajan, Joshua Stohl & Cara Perales.

## Student Research & Publications

Nasrazadani, S., Vemuri, P. & Burckhard, S. (2003, March). "Evaluation of Magnetite Coatings for Temporary Protection of Carbon Steels", NACE CORROSION. San Francisco.

Parakala, P., Mirshams, R., Nasrazadani, S. & Lian, K. (2004). "Effect of Thickness and Indenter Geometry in Nanoindentation of Nickel Thin Films", MRS Proceedings.

Mirshams, R. & Parakala, P. (2004). "Nanoindentation of Nanocrystalline Ni with Geometrically Different Indenters", Journal of Materials Science and Engineering.

## ASHRAE Student Chapter



The ASHRAE Student Chapter was officially established in a ceremony on February 4, 2004 at the UNT Research Park Auditorium. Mark Bordelon is the first President. ASHRAE Dallas past and present Presidents, and the Regional Student Affair Representative were among those in attendance. Frank Armstrong presented a paper that addressed his design team's project.

It was announced that Dr. Seifollah Nasrazadani received a second \$5,000 Senior Design Grant from ASHRAE. The previous grant resulted in the design and building of a heat exchanger analyzer which attracted national attention by being mentioned on the front page of the November 2003 issue of the *ASHRAE Insight*.

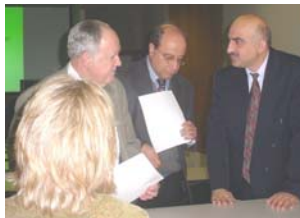


Leo Stambaugh, Ex-President of the Dallas Chapter & Tom Fitzmaurice of UNT

Mark Bordelon, UNT Chapter President (Left)



Dean Oscar Garcia (Left), Associate Dean Reza Mirshams & Division Director Seifollah Nasrazadani.



Founding Dean Garcia welcomes the attendees



Main Speaker Frank Armstrong addresses the group.

Dr. Seifollah Nasrazadani  
Faculty Advisor

## IEEE Student Chapter



The Institute of Electrical and Electronics Engineers is one of the world's largest and most active professional organizations. The IEEE has 37 societies, is responsible for nearly 900 active standards, and produces 30% of the published literature in electrical engineering, computers, and control technology.

Locally, students have the opportunity to be involved in UNT's IEEE student branch. This year's activities have included tours, guest speakers, volunteering at the high school robotics competition, and the chance to network with other IEEE groups. Currently, students are in the early stages of forming an IEEE Computer Society and an IEEE Robotics Society at UNT.

Office Bearers:

President - Cheryl-Annette Kincaid  
Vice-President - Frank Flores  
Secretary/Treasurer - Christian Winter  
Ambassadors - Josh Stohl, Ramya  
Pinapati & Vivek Jain

**Albert B. Grubbs, Jr.**  
Faculty Advisor

## SME Student Chapter



The student chapter of the Society of Manufacturing Engineers at the University of North Texas is in a rebuilding year with the assistance of their student chapter liaison, Peter Tanguy. Peter has helped the student officers increase the chapter's visibility and organization. Enrollment is above the minimum requirement to receive funding from SME International Headquarters. Two chapter officers attended the SME Texarkoma Region 11 COC in an effort to obtain information as to what other chapters are doing and also to network. The chapter's main purpose is to help expose students to working engineers and future employers. The following are SME Chapter S305 officers:

Chair - Adam Reiman  
Chair-Elect - Travis Offield  
Treasurer - Ken Crane  
Secretary - David Brank

**Dr. Phillip Foster**  
Faculty Advisor

## ETEC Web Site

[www.etc.unt.edu](http://www.etc.unt.edu)

## 2002 - 2003 Outstanding Students



Each year the Engineering Technology Department faculty select one outstanding student from each program who qualifies according to UNT guidelines.

The following undergraduate students were selected by the Engineering Technology faculty as the best of 2003-2004. Electronics - **Joshua Stohl** and Mechanical - **Luis Reyes**. The Outstanding Graduate Student for 2003-2004 is **Brian Urban**.

## Featured ELET Graduate Assistant



**Ms. Swathi Dhoopati**

Ms. Swathi Dhoopati is a graduate student in the electronics program, pursuing a dual degree option (Master's of Science in Engineering Technology and Master of Business Administration in Operations Research). She is a teaching assistant for the circuits courses and the recipient of a National Scholars Honors Association award.

Ms. Dhoopati's research is the "Dynamic and Static Electrical Characterization of Gallium-based Rectifier Chips". She is a volunteer at the Denton State School who works with the mentally challenged and hopes to better their lives with love and affection.

**Dr. Albert B. Grubbs, Jr.**  
Major Advisor

## Featured MEET Graduate Assistant



**Ms. Haritha Namduri**

Haritha Namduri is from Hyderabad, India. She graduated from Chaitany Bharathi Institute of Technology in 2001 with a Bachelors degree in Mechanical Engineering (specialization in production). She completed her MS program in Mechanical Engineering Technology at UNT in May 2003. The topic of her research is Characterization of Iron Oxide Deposits Formed at Comanche Peak Steam Electric Station (CPSES)". She is working on her doctoral degree in Materials Science and Engineering at UNT. She is contributing to the development of the undergraduate Materials Engineering Lab that is part of an undergraduate Mechanical Engineering Technology course.

**Dr. Seifollah Nasrazadani**  
Major Advisor

## Effects of Thickness and Indenter Geometry in Nanoindentation of Nickel Thin Films (Master Thesis)



**Ms. Padma Parakala**

Effects of thickness and tip geometry on Ni thin films deposited on Cu substrate were studied using the nanoindenter. Deformation mechanisms in correlation to hardness measurements were discussed at various loads and depths of penetration. The Berkovich, Cube corner and Conical tips have been used in this study. Initially, the hardness and modulus of elasticity were measured at a depth of 10% of film thickness. The depth of penetration was increased to 20% to observe depth effects. Analysis of data showed there is an Indentation Size Effect (ISE) irrespective of indenter tip geometries.

**Dr. Reza Mirshams**  
Major Advisor

## Student Engineering Council

The Student Engineering Council is an organization formed during the fall 2003 semester. The Council seeks to facilitate communication and organize activities involving all student organizations within the College of Engineering. This year, the Council hosted a college of Engineering get-together and the first Annual College of Engineering Career Fair, and is preparing for this year's Annual Banquet. Organizations represented by the Council include the Association for Computing Machinery (ACM), the American Society of Heating, Refrigeration and Air-Conditioning engineering (ASHRAE), the American Society of Mechanical Engineers (ASME), the Eagle Robotics Society (ERoS), the Institute of Electrical and Electronics Engineers (IEEE), the Materials Research Society (MRS), the Society of Manufacturing Engineers (SME), the Society of Plastics Engineers (SPE), and the Society of Women's Engineers (SWE). Visit the Council office in room C211, College of Engineering for additional information



## NASA Faculty Fellowship



**Dr. Monty Smith**

Dr. Monty Smith was selected to participate in the 2003 NASA Faculty Fellowship Summer Program at Ames Research Center in California. Dr. Smith worked closely with NASA colleagues on common research interests during the 10-week research residency. NASA's funding amounted to \$12,000.

Monty's research was The Study of Nonlinear Dynamic Inverse Control/Filtering Techniques with Applications to Micro Air Vehicles. The project involved development of complex filtering algorithms for the stability and control of micro air vehicles (rotocraft designs) during the hover flight condition. The filtering algorithms were based on the nonlinear dynamic inversion approach which has been successfully applied to fixed wing platforms with short takeoff and vertical landing capabilities. This approach, however, is yet to be proven in hardware for highly nonlinear platforms that are being considered in this study.

## Biomedical Optics



**Dr. Vijay Vaidyanathan**

Dr. Vaidyanathan obtained a donation of a \$25,000 Optical Multichannel Analyzer from Hamamatsu Corporation for continuing his research on Biomedical Optics and non-invasive detection of oral cancer.

Vijay and co-author Dr. Theresa Fossum of Texas A&M University, had a paper accepted by the SPIE Journal of Biomedical Optics entitled: "A Comparison of ALA-induced Fluorescence from Normal and Inflamed Gingiva in the Canine Model".

## Software Donation

**Dr. Vijay Vaidyanathan** received a \$14,000 software donation from EDS for academic use. The software modules are an addition to the Unigraphics solution and allow the user to perform functions such as schematic capture and printed circuit board layouts. UG/Schematics (S12800) is an integrated 2-D schematic layout package for Unigraphics that provides front-end logical design for

electrical/electronics applications. UG/EPAC- G/EPAC (S12745) is a Unigraphics ECAD Packaging interface that connects the ECAD system to Unigraphics and uses the neutral file format IDF 2.0 to transfer physical design information between Unigraphics and various ECAD printed circuit board layout systems.

## Real World Background Luminance



**Dr. Roman Stemprok**

The Roadway Lighting Committee of the Illuminating Engineering Society of North American (IESNA) has made progress towards the calculation of visibility under night driving conditions.

The concept of Small Target Visibility (STV) is a first step towards a more general description of visibility. However, in order to extend the visibility to a larger field, it is necessary to have background information on other tasks that occur in practice. A visibility level higher than 10 is needed for a target to be seen by a nighttime driver when considering wide angles.

Dr. Roman Stemprok received \$15,000 from IESNA for a project titled: "Real World Background Luminance for Objects to be Viewed by Night Drivers". This project assembled a basis for future roadway lighting design utilizing the entire driving scene. The driver's surrounding environment has been included with various reflectance data.

## Pulse Oximetry



**Dr. Vijay Vaidyanathan**

Dr. Vaidyanathan received a letter of support from Dr. Michael Ramsey, President, Baylor Research Institute committing laboratory space and resources for the pulse oximetry research project. Vijay is investigating an improvement to existing pulse oximeter design.

## Liquid Nitrogen Automobile



**Dr. Mitty Plummer**

UNT and the Kharkov National Automobile University received a \$70,000 grant in 2002 from the Civilian Research and Development Foundation to explore development of liquid nitrogen powered vehicles. The grant permitted a visit by Dr. Mitty Plummer to Ukraine and two visits by Dr. Igor Kudryavtsev to the US. Dr. Kudryavtsev taught two courses during the Fall 2003 semester. The contract concludes in May 2004.

The collaborative efforts of the researchers produced five international journal articles and a third liquid nitrogen powered vehicle to add to the world's fleet of truly zero emission vehicles. The researchers wrote a proposal to study methods to make cleaner burning diesel engines and additional proposals to continue the collaboration for five more years.

## TXU Update



**Dr. Mitty Plummer**

TXU has extended the contract (Continuation of BS Degrees in Nuclear Engineering Technology and Electronics Engineering Technology) for a 16th time, extending the program into a 15th year. This contract is the longest running and largest at UNT.

The program has assisted more than 40 power plant workers in obtaining degrees to promote their careers. Several UNT students have emerged from the program to take responsible positions. For example, one former student is in charge of plant refueling outages which are carefully planned and coordinated to assure safety and minimize financial impact. Another is planning the steam generator replacements scheduled for 2006.

There are approximately 20 students pursuing degrees in the program. A graduation ceremony is planned for December 2004.

## Collaborative Visit



**Dr. Monty Smith**

Dr. Robert Lascano, professor of soil physics at Texas A&M University visited Dr. Monty Smith during February 2004. The purpose was to discuss a possible research project associated with dynamic soil modeling and the monitoring/control of soil properties (nitrogen, phosphate, potassium) for optimization of plant growth and yield. Dr.'s Lascano and Smith have already accomplished an initial investigative study that appears promising and includes modeling in the time domain using time varying state space models in Hibert space.

## Sound Cancellation



**Dr. Roman Stempok**

Dr. Stempok has received a \$2500 research grant from UNT to fund a sound cancellation project devoted to the increased level of noise pollution. The Labview platform is a combination of a high-speed Intel-Pentium 4 processor with a graphical programming method. The feedback, self-regulated system provides results but possesses the threat of instability and acoustic feedback. A compromise must be made between input signal amplification and whole system stability to avoid this threat. An advantage of the feedback noise-cancellation system is that it is self-adaptive. The active sound-control process that makes an anti-noise for every known noise volume, has been successfully researched by students who obtained 12 dB cancellation at the 60 dB sound level. A dynamic computer solution to cancel sound has been achieved!

A direct result of this research has been a paper written by Dr. Stempok and student Sean Daly titled: "Hardware and Software PC Skills Applied to a Sound Cancellation Project" and presented at the 2003 ASEE Annual Conference & Exposition in Nashville.

## ELET Division Industrial Advisory Board Meeting



The Electronics Industrial Advisory Board meeting was held on November 21, 2003 in the Dean's Conference Room at the UNT Research Park. Industrial representatives in attendance were: Jim Poloczek, Raytheon; Ezra Pernermon, TI; and Ewell Condren, MEMC. Mr. Peter Dickson, Ericsson, could not attend due to a prior commitment. The following faculty were present: Dr. Bill Grubbs, Dr. Vijay Vaidyanathan, Dr. Perry McNeill, Dr. Roman Stempok, Dr. Robert Hayes, Mr. Enkhat Baatarjaav and Mr. Hubert Bahr.

Dr. Grubbs overviewed the new College of Engineering and its role in light of other well-developed Metroplex engineering programs. An articulation agreement with Collin County Community College was discussed as a seamless transfer of associate degree graduates into UNT's BSET program.

Dr. Vaidyanathan indicated that ELET undergraduate and graduate enrollments have increased from Fall 2002. The new curriculum has 128 credit hours, down from 136. A recommendation was agreed upon to consolidate the first two circuit courses. Curriculum content suggestions included an overview of semiconductor manufacturing technology (SMT), three-phase power/facilities control, and programmable logic controllers (PLC) technology.

Use of the Convergence Lab to enhance student experience in the communication sequence was strongly encouraged. IAB members recommended student participation in the Fundamentals of Engineering (FE) exam as a way to establish an objective measure of student capability.

Written and oral communications are emphasized in every electronics course. Each course has a required course project that combines technical and soft skills, lab reports and at least two oral presentations. New EDS project/product management software is being incorporated into the Senior Project course beginning Spring 2004.

TAC of ABET requirements and program assessment methods were discussed. A program assessment model was presented and IAB members agreed to provide timely written feedback.

## NUET Industrial Advisory Board Meeting

The Nuclear Engineering Technology Program Industrial Advisory Board met January 15, 2004 at Comanche Peak Steam Electric Station near Glen Rose, Texas to review the program's progress. The key point of the meeting was approval of methods of program assessment for continuous quality improvement required by ABET, the Texas Higher Education Coordinating Board and the Southern Association of Colleges.

Two resignations of founding members were announced at the meeting. James Kelly, Vice President for Nuclear Engineering and Support announced his pending retirement. Mike Blevins, Senior Vice President and Principal Nuclear Operating Officer announced his resignation due to increased responsibility accompanying his promotion. These men will be greatly missed for the many positive contributions they have made to the program.

## New Faculty Member



**Dr. Elias Kougianos**

Dr. Elias Kougianos, Assistant Professor, is a member of the Electronics Engineering Technology Faculty. Dr. Kougianos earned his BS in EE at the University of Patras, Greece and MS degrees in Physics and EE, plus a Ph.D. in EE, from Louisiana State University.

Elias has extensive industrial experience with Texas Instruments in Houston and Dallas, Avant Corporation and Cadence Design Systems, Inc. Dr. Kougianos's areas of expertise include semiconductor process integration, process and device simulation, and VLSI design. As an Electronic Design Automation consultant, Elias has worked with TI, Motorola and Intel towards the design and simulation of high performance, high speed RF, Analog and Mixed Signal integrated circuits.

Dr. Kougianos joined the UNT faculty in the Spring of 2004. He has four journal and refereed conference papers and three presentations. His research interests include analog and mixed signal circuit simulation and the application of stochastic techniques to the solution of electromagnetic problems.



## TXU Research Project



### TXU

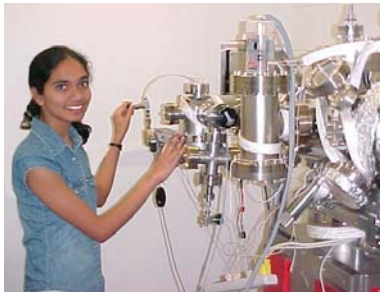
Dr. Seifollah Nasrazadani's research group is involved in characterization of corrosion byproducts formed in the secondary side of both nuclear reactors at CPSES at Glen Rose.

### Dr. Seifollah Nasrazadani



A report on the status of the Steam Generators and other components of the reactors was submitted to TXU as per a \$110,000 grant. This research effort continues in 2004 during maintenance and refueling shutdowns of the plant for an additional \$10,000 - \$25,000.

## Field Emission



**Ms. Prasanna Vemuri**

A \$150,000 UHV system was donated to the Department from Materials Science. The system was retrofitted with an electron beam evaporation gun that allows films to be deposited containing up to four elements in sequential or simultaneous order.

Prasanna Vemuri is concluding her thesis research using this deposition system. Encouraging results have been obtained which open the door to application of Boron Nitride in electronic devices and mechanical systems.

**Dr. Seifollah Nasrazadani**  
Major Advisor

## Laboratory Developments in the Mechanical/Manufacturing/ Nuclear Division

This Engineering Technology Division is dedicated to practical laboratory development with a goal to increase student exposure to hands-on experiments in which data is collected from physical instruments. Students use this information to produce quality laboratory reports and presentations.



Dr. Seifollah Nasrazadani has written a 10-experiment manual (RonJon Publishing) to be used in MFET 3450 Engineering Materials. Experiments include X-ray diffraction, scanning electron microscopy (SEM), energy disperse spectroscopy (EDS), metallography, mechanical testing (tensile, impact, hardness), heat treatment of ferrous and non-ferrous alloys and corrosion of engineering alloys.

ALCATEL donated instruments and a recently purchased, fully programmable furnace are utilized in this laboratory. Students are also given a demonstration of the nanoindentation system research instrument for measuring hardness of nano-materials.



Future plans include the acquisition of several optical microscopes and a metallograph to enable students to document micro-structural features of engineering alloys.

## SEM/EDS



A \$100,000 Jeol 840 scanning electron microscope was donated by ALCATEL and installed in the Materials Research Lab. Dr. Seifollah Nasrazadani received a \$35,000 UNT research office grant to upgrade the SEM. The system now has an Energy Dispersive Spectroscopy (EDS) system that includes state-of-the-art software that facilitates elemental distribution characterization of engineering materials.



## Outstanding Alumni

Beginning in 1984, recognition has been awarded to outstanding alumni of UNT. The following individuals have graduated from what is now the Engineering Technology Department and have been so recognized.

### Education

Dave Pullias	Ron Foy	John Richards
David Greer	Ralph Schultz	David Duncan
Floyd Trimble	Roger McSween	Jerry Drennan
Dale Lemons	James C. Cooke	M. D. Williamson
Brent Payne		

### Business or Industry

Lionel Sweeny	Guy Laney	Robert Lange
T. W. King, Jr.	Dwight Lowery	Robert Swanson
Robert Mitchell	Bennie Snyder	Alan Calvert
David Meinsinger	Hurles Scales	David C. Orf
Sean L. Mayes	Daniel Dickey, Jr.	Lee Palmer
Claudia Heinrich-Barna	Randall Reed	Robert Starrett
Toby Malone	Alan Triggs	Charles Cotton
Troy Wolf	J. Lee Natzic	Kevin K. Poole
Richard Brabec	Keith Zimmerer	Stephen Spurgin
Brian Pavelek	John J. Balzer	Dale Martin
Ewell Condron	Kit Wilson	Donald Boston

### Photo Gallery from 2003 Alumni Appreciation Day

Francie & Brian Pavlek



Luncheon Table #1



Dadie & Ewell Condron



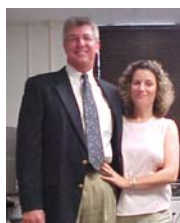
Luncheon Table #2



Kim Wendt at Dean's Registration Table



Dean's Reception



Kit & Kim Wilson

**Outstanding Manufacturing Engineering Technology Alumnus.** Scott McCally received his BS degree from UNT in 1999. After seven years working on structural and architectural design and management of civil and mechanical projects, he began his own company four years ago. Scott has been involved in an array of building projects ranging from \$150,000 to more than \$1 million. Scott has more than seven years experience on structural and architectural design and management of civil and mechanical projects. Scott and his wife Veronica live in Pilot Point, Texas.

**Outstanding Electronics Engineering Technology Alumnus.** Leslie Darrah is an Electrical Design Engineer with Peterbilt Motors Company of Denton, Texas. He began his career as office manager for Casters of Fort Worth Inc. where he supervised the sales teams and maintained the company's budget. After a short period with NCR/AT&T Corporation, Mr. Darrah joined Peterbilt. His responsibilities include design validation prior to implementation, publication of manufacturing specifications and development of customer design requirements. Leslie was President of the Tau Alpha Pi Honor Society local chapter and is a member of Phi Kappa Phi Honor Society. He was awarded a National Science Foundation scholarship while at UNT.

**Outstanding Mechanical Engineering Technology Alumnus.** Ms. Laura Tripp received her BSET in Mechanical Engineering Technology from UNT in 1998. Ms. Tripp began her career at Peterbilt Motors Company of Denton by laying out frame components on Pro/E, completing driveline layouts and working on bills of materials. After graduating from UNT, she became an Associate Design Engineer and currently works in cab interiors where she is responsible for the design of soft trim, plastics injection molded parts, insulation, and composite carpet and mat flooring. Ms. Tripp also is responsible for current production support, documentation of project financials, drafting, and current GD&T standards.

## Alumni Update Your Assistance is Needed

Are you recently married? Do you have any new additions to your family? Have you been recently promoted? Have you moved? Let us know what is happening in your life. News of alumni will be published in future issues of this newsletter. So, please keep us informed.

Along with your news, include your name, address, phone, date of graduation and degree. If possible also include a fax number, a recent photo of yourself and an e-mail address. Mail to: "At a Glance", Engineering Technology Department, P.O. Box 310679, University of North Texas, Denton, Texas, 76203-0679. Or, you may fax us at (940) 565-2666 or email to <[etec@unt.edu](mailto:etec@unt.edu)>.

## College of Engineering Executive Committee



**CENG First Executive Committee**

The first official meeting of the College of Engineering Executive Committee was held on July 3, 2003. The purpose was for Founding Dean Oscar Garcia to set the agenda and identify priorities for the further development of the newly established College.

The Executive Committee, in addition to Dean Garcia, consisted of Associate Dean for Academics Dr. Reza Mirshams, Associate Dean for Research Dr. Kathy Swigger, Engineering Technology Department Chair Dr. Bill Grubbs, Computer Science and Engineering Department Chair Dr. Krishna Kavi, Materials Science and Engineering Department Chair Dr. Bruce Gnade, Development Office Liaison Mr. Tom Fitzmaurice, and College Administrative Assistant Ms. Carol Testerman.



**Carol Testerman & Dean Oscar Garcia**

## Environmental Scan



The University of North Texas must remain relevant and forward looking with technical change if its graduating students are to have a competitive edge in the North Texas region and the nation. The founding College of Engineering at UNT has a unique opportunity to capitalize on technical trends that are of strategic importance to the growth and competitiveness of the North Texas region economy. An environmental scan was held on October 3, 2003 at the UNT Research Park.

Reports by the founding Dean and Department Chairs were followed by breakout sessions to obtain industrial and community input.



**Congressman Michael Burgess**



**Founding Dean Oscar Garcia  
College of Engineering**



**Provost Howard Johnson**



**Associate Dean Reza Mirshams  
Materials Science & Engineering**



**Dr. Krishna Kavi  
Computer Science & Engineering**



**Dr. Albert B. Grubbs, Jr.  
Engineering Technology**



**Working Session**



# Faculty Dinner August 2003

The 2003-2004 academic year kicked off with a dinner at La Hacienda in Carrollton, Texas. The buffet was great; no one went home hungry.



Dr. & Mrs. Plummer share a secret

Ms. Leticia Anaya chats with Dr. & Mrs. Seifollah Nasrazadani



Dean Oscar Garcia at the buffet line.

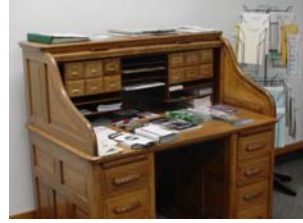


Mr. & Mrs. Charles Bittle take their turn.

Time to consume



The Main Office



Old Desk in New Main Office



Electronics Labs



Faculty Office

## First CENG Faculty Meeting

In a year of "firsts" the first College of Engineering Faculty Meeting, held in the University Union, must be included.



## Our New Home: UNT Research Park



Southeast Wing Houses Engineering Technology



Main Entrance



Sign Outside the Main Office



Time for some refreshments.





# Engineer's Week Festivities at UNT

Cheryl Kinkaid, IEEE Student Chapter President  
Leticia Anaya, Faculty Sponsor



**Tuesday, February 24**



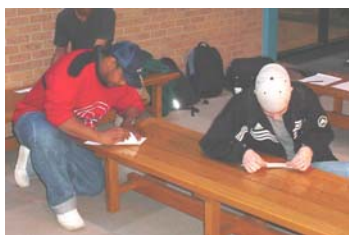
**Remote Control Car Maze**

**Wednesday, February 25**



**Computer Game Contest**

**Thursday, February 26**



**Paper Airplane Contest**

**Paper Tower Contest**



**Drinking Straw Towers Contest**

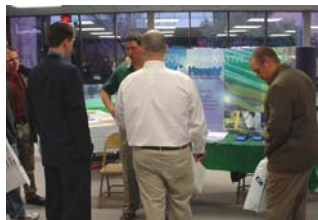


**ETEC Faculty enjoying refreshments**



**Best Engineer in the College Contest**

**Friday, February 27**



**Career Job Fair**



The Main Plenary Speaker for the week was Ms. Donna Davis, President of the International Society of Plastics Engineers and World wide Applications Specialist for ExxonMobile Corporation of Baytown, Texas.

