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Our Mission Statement
Our mission, as a component of a land-grant institution, is

1. to provide the high quality educational experience in the industrial engineering discipline which will prepare our graduates to contribute successfully to society and to assume leadership roles in industrial, governmental, and academic professions;

2. to provide the state and nation with new knowledge, both basic and applied, in the field of industrial engineering;

3. to provide service to the industrial, governmental, and professional communities through dissemination of research findings, provision of continuing education programs, interaction with industry and professional colleagues, membership on advisory committees, consulting, and other outreach activities.

Front Cover
Work is nearing completion on the Emerging Technologies and Economic Development Building, new home of the Department of Industrial and Systems Engineering. Move-in is expected to take place July 2011. The building will also house the Department of Biomedical Engineering, Coastal Deepwater Program laboratories, Visualization Program laboratories, and other interdisciplinary research initiatives.

Our Advisory Council
The mission of the Industrial and Systems Engineering Advisory Council is to provide a continuing liaison between the department and the practicing profession for the purpose of improving the quality of the industrial engineering program at Texas A&M University.

Function 1: to assist in resource development to support the needs and programs of the department.

Function 2: to serve in an advisory capacity to the department head by making recommendations about the goals and programs of the department.

Mr. Kent Beran
Boeing Company

Mr. Gary Cerny
Michels Corporation

Mr. Greg R. Clapp
Fujitsu Network Communications

G. Allen Flynt
Hamilton Sundstrand

Mr. Ross George
Five G Management, LLC

Mr. Michael Haack, P.E.,
Halliburton AS

Mr. Randy Hoff
Energy Education

Ms. Victoria Hunter
Lee Hecht Harrison

Mr. Dean Liollio
PAA Natural Gas Storage, LLC

Mr. Greg Loppatto
UPS

Mr. James Menke
Flextronics

Ms. Robin Moore
Michaels Stores, Inc.

Mr. John A. Scott
Applied Systems Technology and Transfer, Inc.

Mr. Douglas W. Sellers
Accenture

Mr. Lee Sneddon
Intel Corporation

Mr. Charlie Stegemoeller
NASA
I’m pleased to share with you the 2010 Annual Report from the Department of Industrial and Systems Engineering at Texas A&M University. It highlights some of the many activities and accomplishments of our faculty and students during the past year. I hope it provides you a glimpse into the meaningful and exciting work being performed.

Both the Dwight Look College of Engineering and the Department of Industrial and Systems Engineering remain highly ranked and well regarded. We continue to build on this foundation of excellence and expand into new endeavors and broaden our research impact. Several new initiatives are underway and many exciting opportunities exist at Texas A&M.

As always, the faculty and staff are working together to achieve at the highest level possible those goals outlined in our mission statement. This report summarizes their scholarly activity and high level of academic achievements. I would welcome hearing from you should you have questions or feedback on the department’s activities as we continue to expand and enhance our program.

Greetings from the Department Head

Brett A. Peters

Departmental Data for 2010

U.S. News & World Report Rankings Among Public Institutions: 6th Undergraduate ; 6th Graduate

Enrollment Fall 2010

Undergraduate Students 639  Graduate Students 275  (Ph.D. 59, Master’s 216)

Quality Indicators

Total Faculty 31  (Professors 12, Associate Professors 8, Assistant Professors 5, Non-tenured/Non-tenure Track 6)

Endowed Chair Holder 1, Endowed Professorship Holders 3, Development Professorship Holders 2

Centers and Laboratories

Advanced Metrology Laboratory, Computer Integrated Manufacturing Laboratory, Decision Analysis Systems Laboratory, Institute for Manufacturing Systems (TEES), Logistics and Networked Systems Research Laboratory, Manufacturing Automation Laboratory, Modeling and Simulation Laboratory, RFID and Supply Chain Systems Laboratory  Systems Modeling and Computational Optimization (SyMCo) Laboratory, Virtual Reality and Visualization Laboratory
Mike and Sugar Barnes Endow Chair

William M. “Mike” Barnes ’64 and his wife Sugar have recently given $2 million to endow a department head chair in Industrial and Systems Engineering. “Mike and Sugar are great friends of this institution, and this gift again demonstrates their devotion to Texas A&M,” said G. Kemble Bennett, vice chancellor and dean of engineering.

The Sugar and Mike Barnes Department Head Chair in Industrial and Systems Engineering will be used for student support, faculty development, curriculum enhancement and research initiatives. “We are happy to support Texas A&M in providing their students with an outstanding education, which we have always believed is the key to success,” said Sugar Barnes, a certified public accountant who has practiced in Texas for 25 years.

A basketball star from Waelder, Texas, Mike Barnes earned B.S. (1964) and M.S. (1966) degrees in industrial engineering, followed by a Ph.D. (1968) in operations research, all from Texas A&M. As a student, he was active in the Institute of Industrial Engineers and was inducted into the Alpha Pi Mu industrial engineering and Tau Beta Pi engineering honor societies.

Barnes served as an instructor of maintainability engineering at the U.S. Army Logistics Training Center, an expert consultant to the assistant postmaster general in Washington, D.C., and a visiting professor of computer science at Southern Methodist University. In 1968 he joined Collins Radio, a predecessor Rockwell, as a member of the corporate operations research staff. His expertise in planning and forecasting benefited Rockwell’s commercial and defense businesses. In 1991 Barnes was named senior vice president, finance and planning, and chief financial officer for Rockwell. He retired in 2001.

Barnes played a significant role in establishing the Rockwell International Corporation Professorship in Engineering at Texas A&M. He represented the company in its gift of equipment and cash for a major laboratory in the Department of Engineering Technology and Industrial Distribution, and in the Rockwell Fellowship Program for graduate students in computer science and electrical, industrial and mechanical engineering. The couple also previously endowed a professorship in industrial engineering.

He is a member of the Texas A&M Engineering Advisory Council and has been honored as an Outstanding Alumnus of the Look College of Engineering and an Outstanding Former Student of the Department of Industrial and Systems Engineering. Additionally in 2009 he was named the first recipient of the Texas Council of Industrial Engineering Academic Department Heads Lifetime Achievement Award.

Always a team, Mike and Sugar Barnes were charter members of the Chancellor’s Century Council at Texas A&M. They have been active in the United Way as members of the Alexis De Tocqueville Society.

Sugar Barnes is on the board of trustees of the Witte Museum in San Antonio, and has served on the museum’s development, finance and executive committees. She is a trustee and vice president of the Alamo Mission Chapter of the Daughters of the Republic of Texas and is active in the alumnae chapter of Delta Gamma. A native of Gonzales, Texas, she graduated with honors in accounting from the University of Texas. She served on the Ethics Committee for the Texas State Board of Public Accountancy, taught accounting in the Dallas Community College System and was a traveling accounting lecturer for Texas A&M University. (Article courtesy of Texas A&M Foundation.)
ISEN Faculty Named IIE Fellows

Professors Guy Curry, Abhijit Deshmukh, and Brett Peters from the Department of Industrial and Systems Engineering were named Fellows of the Institute of Industrial Engineers at the IIE Annual Research Conference in June. The Fellow Award recognizes outstanding leaders in the profession who have made significant, nationally recognized contributions to industrial engineering.

Curry received his Ph.D. from the University of Arkansas and joined Texas A&M University in 1970. He won his first teaching award in 1972 and has continued since then to receive awards for his teaching excellence. In 2006, he received the Albert G. Holzman Distinguished Educator Award from the Institute of Industrial Engineers. This prestigious award recognizes significant contributions to the profession through career accomplishments in teaching excellence, research, publication, extension, innovation, and administration. Since 2008 he has been awarded both the college level and university level distinguished teaching awards by the Association of Former Students.

After earning a Ph.D. at Purdue, Deshmukh served on the faculties at SUNY-Stony Brook, Florida State, and the University of Massachusetts. In addition he served as program director for Manufacturing Enterprise Systems at the National Science Foundation before coming to Texas A&M in 2008. He has received several awards in recognition of his professional accomplishments including the Outstanding Young Manufacturing Engineer from the Society of Manufacturing Engineers and the Teetor Educational Award from the Society of Automotive Engineers. He was named a Lilly Teaching Fellow at the University of Massachusetts. (In January 2011, Dr. Deshmukh took the position of department head at Purdue.)

Peters, who currently serves as department head, received his Ph.D. from the Georgia Institute of Technology in 1992. He came to Texas A&M as an assistant professor that same year and established himself as a leading researcher in the field of material handling and plant layout. He received the Student Award for Excellence from the Institute of Industrial Engineers in 1987, was named an Outstanding Young Manufacturing Engineer by the Society of Manufacturing Engineers in 2001, and was inducted into the Arkansas Academy in Industrial Engineering in 2005. He has served as President of the College-Industry Council on Material Handling Education.
Improving Health Care a Growing Area for ISE’s

Optimizing Patient Care in Nuclear Medicine
Healthcare costs in the U.S. have increased rapidly and now exceed those in other nations that provide equivalent care. Increased demand for specialized services has been identified as one of the causes of this trend. Nuclear medicine is a subspecialty of radiology that deals with procedures that require the use of radioactive isotopes. These isotopes are administered to patients to diagnose and treat diseases such as cancer and heart disease. Nuclear radiology procedures involve multiple activities that are performed in multiple steps following a strict protocol adhering to time window constraints and resource availability. Associate Professor Lewis Ntaimo and postdoctoral student Eduardo Perez are collaborating with Carla Bailey and Peter McCormack of Scott and White Hospital in Temple to develop theory, models and algorithms, and practical tools to improve patient service delivery in nuclear radiology through the use of health information technology based stochastic online optimization techniques for scheduling patients, radiopharmaceuticals, and resources in an integrated manner. For further information contact ntaimo@tamu.edu.

Implementing Use of Electronic Health Records
The Dwight Look College of Engineering and the Mays Business School are partnering with The Rural and Community Health Institute at the Texas A&M Health Science Center, which has received a grant award from the U.S. Department of Health and Human Services, to form a Health Information Technology Regional Extension Center (REC). The CentrEast Regional Extension Center will assist physicians and other health care professionals, as well as critical access and rural hospitals in 47 Texas counties, in implementing electronic health records (EHRs). Associate Professor Andy Banerjee of the Department of Industrial and Systems Engineering and Arun Sen, Professor of Information and Operations Management, are serving as Co-PIs from the Colleges of Engineering and Business respectively. The REC will provide technical assistance, guidance and information on best practices for health care practitioners and hospitals to become meaningful users of electronic health records. The Health Information Extension Program prioritizes access to health information technology for historically underserved and other special-needs populations and the use of that technology to achieve reduction in health disparities. Industrial and systems engineering tools will be extensively used in the project to analyze and improve information and personnel flows in medical practices during the implementation of electronic health records; assisting practices in the process of transitioning from paper to electronic records, choosing the most suitable EHR system, identifying data storage and information system requirements, and establishing security policies. Additional information on CentrEast REC can be found at http://www.centreastrec.org.

Reducing Medication Errors in Pediatrics
Associate Professor Lewis Ntaimo, Associate Professor Amarnath Banerjee, Assistant Professor Kiavash Kianfar, and Ph.D. student Michelle McGaha are working on a project designed to analyze and optimize medication workflow so as to reduce the occurrence of medication errors and improve quality of care in pediatrics. According to a report by the Institute of Medicine, an estimated 44,000 to 98,000 people die annually due to errors in health care. Medication errors are common in hospitals today, and potential adverse drug events are three times more likely in pediatrics than in adult medicine. This research was funded by a grant from the National Science Foundation Center for Health Organization Transformation. For more information contact ntaimo@tamu.edu.

Engineering Incentives for Health Care Systems
Although the U.S. health care system is a world leader in many dimensions, the cost of health care is not one of them. U.S. health care expenditures have risen at a much higher rate than that of other OECD nations, and currently stand at 16% of U.S. GDP. Although part of the increase can be attributed to the development of new medications, availability of advanced diagnostic and surgical procedures, and an aging population base, a major factor in the increase in cost is related to the strategic behavior of the participants. This behavior is based on incentives embedded in the system that influence participants in several ways, potentially resulting in system-wide inefficiencies from misaligned objectives, destruction of competition, and removal of the burden of risk from individual decisions, all resulting in higher costs. In recent years considerable attention has been paid by researchers to reducing inefficiencies at the operational level of health care systems. However, basic research issues related to engineering incentives in health care systems, such as design of appropriate incentives, estimation of system-wide performance for a set of incentives and predicting participant response to given incentives have not received much attention, despite the significant potential for saving health care costs. Professor Abhijit Deshmukh, Assistant Professor Andy Johnson, along with Jim Rohack, M.D. of Scott and White Health Care System, are addressing the fundamental issues related to designing incentives for distributed decision makers in health care systems. They are specifically focusing on how incentives can be used to reduce costs by aligning objective functions of non-cooperative decision makers. This research is supported by a grant from the National Science Foundation.
Amazon has given the department $2000 to underwrite student travel to conferences.

Aviall Services has given $2500 in support of the senior capstone design course.

Mr. and Mrs. William M. Barnes ’64 have given $2,000,000 to endow the Sugar and Mike Barnes Department Head Chair in Industrial and Systems Engineering. Funds from this endowment will be used at the discretion of the department head.

Mrs. Alice Beals has made an additional donation of $1000 to the Robert P. Beals Endowed Scholarship.

Lawrence L. Bobo ’58 has established the Lawrence L. Bobo ’58/Scott T. Poage Memorial Scholarship fund in the amount of $25,000, and will match any other contributions up to $25,000 during 2011.

The Caterpillar Foundation has made a gift of $10,000 in support of the virtual manufacturing course. The funds have been used to upgrade the laboratory facilities.

Dow Chemical has given $2500 in support of the senior capstone design course.

Electronic Power Design has given $1250 in support of the senior capstone design course.

Exxon Mobil has given $4000 in unrestricted funds to the Industrial and Systems Engineering Improvement Fund to be used at the discretion of the department head.

Milden J. Fox, Jr. ’69, emeritus professor, has given $1000 in unrestricted funds to the Industrial and Systems Engineering Improvement Fund to be used at the discretion of the department head.

General Electric Power Systems has given $5000 in support of the senior capstone design course.

Halliburton, represented on the Industrial and Systems Engineering Advisory Council by Michael Haack, has given $5000 in support of the senior capstone design course.

Randy Hoff ’97, President of Energy Education, Inc. and member of the Industrial and Systems Engineering Advisory Council, gave $1000 in unrestricted funds.

Knust-SBO Precision Machining has given $1000 in support of the senior capstone design course.

Greg Loppatto, representing UPS on the Industrial and Systems Engineering Advisory Council, has given $2000 in unrestricted funds.

National Oilwell Varco has given $1500 in support of the senior capstone design course.

William Reichert, Jr. ’52 has donated $1000 in unrestricted funds to be used at the discretion of the department head.

St. Joseph Regional Health Center has given $2000 in support of the senior capstone design course.

Texas Commercial Waste has given $1000 in support of the senior capstone design course.

UPS, represented on the Industrial and Systems Engineering Advisory Council by Greg Loppatto, has given $7500 in support of the senior capstone design course.

Fred G. Walsh ’74 of Midland has given $25,000 to endow a scholarship for industrial and systems engineering students demonstrating financial need from Archer, Midland, or Smith counties. The owner and president of Walsh Petroleum, Inc. says he received two scholarships while a student at Texas A&M and looked forward to the day when he could return the favor.

White Towel Services, Inc. has given $2500 in support of the senior capstone design course.
Phillips Receives Lifetime Award

Chevron Professor Don Phillips was honored with a Texas Industrial Engineering Lifetime Achievement Award. Phillips was recognized for 43 years of achievement and service in the field of industrial engineering.

A graduate of Lamar University, Phillips joined the faculty of Texas A&M University in 1975. Prior to that, he held faculty positions at Purdue University and the University of Texas. Phillips is the author of seven college textbooks and more than 150 peer-reviewed journals and proceedings. He has been the principal or co-principal investigator for research grants in excess of $18 million, and serves as the homeland security research coordinator for the engineering programs at Texas A&M.

“Don progressed like a skyrocket in the profession,” said Victor Zaloom, associate dean of the college of engineering and department chair for industrial engineering at Lamar. “He was considered by many in the field to be one of the top five industrial engineering researchers in the country. He holds a position of very high esteem in the field.”

Nominees for the award are selected by members of the Texas executive committee of the Institute of Industrial Engineers. A unanimous vote of the executive committee is required for the recipient of the annual award.

Ntaimo Promoted

Lewis Ntaimo was promoted to Associate Professor in September. He received his Ph.D. from the University of Arizona and joined Texas A&M in 2004. Dr. Ntaimo’s research interests are in stochastic programming, systems modeling and engineering processes, and discrete event modeling and simulation. Applications of interest include wildfire planning, healthcare, wind energy, and homeland security.

Moreno Centeno New Hire

The Industrial and Systems Engineering Department welcomed Erick Moreno Centeno in September. Moreno Centeno received his Ph.D. from the University of California, Berkeley. His research interests are in network and combinatorial optimization, integer programming, and computational optimization. He is also interested in design and analysis of optimization models and algorithms, as well as decision theory, data mining, vehicle routing, and computational biology.
Amarnath Banerjee  
Associate Professor and Director of Undergraduate Program  
Ph.D., University of Illinois  
banerjee@tamu.edu

Dr. Banerjee’s research interests are in virtual manufacturing, simulation, image processing, real-time video processing, augmented reality and human behavior modeling. He directs the Advanced Virtual Manufacturing and Augmented Reality Laboratory. He teaches courses in manufacturing and production systems design and control, facilities planning, virtual manufacturing and simulation.

Research
McComb, S. A., A. Banerjee and K. Mechler, “Improving Medication Reconciliation: An Interdisciplinary Student Team Competition,” 2010, The Annenberg Foundation, through the Texas A&M Health Science Center, $40,000 (ISEN portion $6000)


Refereed Journal Articles


Proceedings and Other Publications

Science and Engineering,  
Toronto, Canada, August 2010

Presentations


McGaha, M., L. Ntaimo, A. Banerjee (Co-PI) and K. Kianfar (Co-PI), “Reducing Medication Errors in Pediatrics,” 2009-2010, National Science Foundation I/UCRC through the Texas A&M Health Science Center, Center for Health Organization Transformation, $50,000


G. Kemble Bennett  
Professor, Vice Chancellor and Dean of Engineering  
Ph.D., Texas Tech University  
kem-bennett@tamu.edu

Dr. Bennett specializes in work related to homeland security. His interests also include engineering management, quality, logistics.
and reliability engineering.
He has served on several

government blue ribbon panels

for the Department of Homeland

Security, Department of Justice

and the FBI. He currently serves as

Executive Director of the National

Emergency Response and Rescue

Training Center.

Presentations
Bennett, G. K., “Discover

Engineering,” Harmony School of

Excellence - Endeavor, Houston,

Tex., November 2010

Professional Activities
Chair, Texas Board of

Professional Engineers

Member, Licensing

Committee, Texas Board of

Professional Engineers

Education Advisory Liaison, Texas

Board of Professional Engineers

Member, Professional Engineering

Exam Committee, Texas Board of

Professional Engineers

Member, Texas Deans

d of Engineering

University Member, Executive

Committee, Texas Engineering

& Technical Consortium

Member, Task Force on Eco and

Animal Rights Terrorism, National

Association of State Universities

and Land Grant Colleges

Member, Executive Working

Group for the Office of State and

Local Government Coordination and Preparedness, U.S.

Department of Homeland Security

Executive Director, National

Emergency Response and

Rescue Training Center

Executive Director, System

Assessment and Validation for

Emergency Responders Program

Trustee, Southwest

Research Institute

Member, Advanced Energy

Technical Working Group, Texas Technology Initiative

Member, Emergency

Preparedness Institute Working

Group, City of San Antonio

Sergiy Butenko

Associate Professor

Ph.D., University of Florida

butenko@tamu.edu

Dr. Butenko’s research

concentrates mainly on global

and discrete optimization and

their applications. In particular,

he is interested in theoretical

and computational aspects of

continuous global optimization

approaches for solving discrete

optimization problems on graphs.

Applications of interest include

network-based data mining,

computational biology, social

networks and remote sensing.

Research
Balasundaram, B. (PI), S.

Butenko (Co-PI), V. Boginski

(Co-PI) and S. Uryasev (Co-

PI), “Robust Optimization for

Connectivity and Flows in

Dynamic Complex Networks,”

2009-2012, Department of

Energy, $589,092 (ISEN portion

$158,580 via subcontract from

Oklahoma State University)

Butenko, S., “Collaborative

Research: International Experience for Students: U.S.-Ukraine

Collaboration on Discrete and

Nondifferentiable Optimization,”

2009-2012, National Science

Foundation, $81,687

Butenko, S., “Phase Transition

Problems in Complex Networks:

Clique Relaxations,” 2009 - 2011, Air Force Research Laboratory, $75,000

Butenko, S., Pathways to the

Doctorate Research Assistantship

Award, 2009–2010, Office of the

Vice President for Research, Texas A&M University, $25,000

Butenko, S. (PI), V. Boginski (Co-

PI) and O. Prokopyev (Co-PI),

“Optimization Techniques for

Clustering, Connectivity, and

Flow Problems in Complex

Networks,” 2008-2011, Air Force

Office of Scientific Research, $349,952 (ISEN portion $186,718)

Butenko, S., J. Gil-Lafuente and

S. R. Seyedshohadaie, “Implementation of TAMSIM and EROW Right-of-way

Acquisition Decision-support Tools,” technical report, Texas Transportation Institute, 2010

Proceedings and Other

Publications

Boginski, V. and S. Butenko,

“Optimization Techniques for

Identifying Large Robust Clusters

in Complex Networks,” poster presentation, Department of Energy Applied

Mathematics Program Review,

Arlington, Va., April 2010

Boginski, V. and S. Butenko,

“Conditional Value-at-risk Based

Approaches to Robust Network

Flow, Connectivity and Design

Problems,” poster presentation, Department of Energy Applied

Mathematics Program Meeting,

Berkeley, Ca., May 2010

Referred Journal Articles

Seyedshohadaie, S. R., I.

Damjanovic and S. Butenko,

“Risk-based Maintenance and

Rehabilitation Decisions for

Transportation Infrastructure

Networks,” Transportation


Krugler, P., C. M. Chang-Albitres,

R. Feldman, S. Butenko, D. H.

Kang and S. R. Seyedshohadaie,

“Implementation of TAMSIM

and EROW Right-of-way

Acquisition Decision-support

Tools,” technical report, Texas

Transportation Institute, 2010

Presentations

Balasundaram, B., V. Boginski,

S. Butenko and S. Uryasev,

“Conditional Value-at-risk Based

Approaches to Robust Network

Flow, Connectivity and Design

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“Optimization Techniques for

Identifying Large Robust Clusters

in Complex Networks,” poster presentation, Department of Energy Applied

Mathematics Program Review,

Arlington, Va., April 2010

Butenko, S., “Bottleneck

Connected Dominating Set

Problem in Ad Hoc Wireless

Networks,” Computational &

Applied Mathematics Colloquium/

Special Lectures, Rice University,

Houston, Tex., September 2010

Presentations

Bennett, G. K., “Discover

Engineering,” Harmony School of

Excellence - Endeavor, Houston,

Tex., November 2010

Professional Activities
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Nondifferentiable Optimization,”

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PI) and O. Prokopyev (Co-PI),

“Optimization Techniques for

Clustering, Connectivity, and

Flow Problems in Complex

Networks,” 2008-2011, Air Force

Office of Scientific Research, $349,952 (ISEN portion $186,718)

Krugler, P. E., R. M. Feldman,

S. Butenko and D. Kang,

“Implementation of ROW

Acquisition Decision Support

Tools,” 2009-2010, Texas

Department of Transportation, $74,292 (ISEN portion $52,004)
Faculty Accomplishments

Sila Cetinkaya
Professor
Ph.D., McMaster University
sil@tamu.edu

Dr. Çetinkaya specializes in supply chain management. Her current research examines inventory, production, and transportation issues in the context of supply chain integration and coordination. She teaches courses in production planning and control, inventory theory, and supply chain coordination.

Research
Tekin, E. (PI) and S. Çetinkaya (Co-PI), “Supply Chain Revenue Management: Mitigating Profit-at-risk in Manufacturing and Distribution Networks,” 2006-2010, National Science Foundation, $250,000

Refereed Journal Articles
Faculty Accomplishments

28, No. 3, 540–557, 2010


Presentations


Professional Activities

Department Editor, IIE Transactions on Scheduling and Logistics

Associate Editor, Naval Research Logistics

Member, Editorial Board, International Journal of Inventory Research

Judge, Paper Competition, Junior Faculty Interest Group, INFORMS

Member, Organizing Committee, INFORMS Annual Meeting

Program Co-chair, Interactive Sessions, INFORMS Annual Meeting

Cluster Chair, MSOM Supply Chair SIG, INFORMS Annual Meeting

Reviewer, Hong Kong Research Grants Council

Reviewer, Manufacturing and Service Operations Management

Reviewer, Operations Research

Reviewer, Production and Operations Management

Reviewer, Journal of Industrial Ecology

Reviewer, European Journal of Operational Research

Guy L. Curry

Professor and Director of Graduate Program
Ph.D., University of Arkansas
g-curry@tamu.edu

Dr. Curry specializes in the application of operations research techniques to the design and analysis of manufacturing systems. He teaches courses in optimization and production systems.

Abhijit Deshmukh

Professor
Ph.D., Purdue University
deshmukh@tamu.edu

Dr. Deshmukh’s research interests are in distributed decision-making (design, analysis and control of large-scale distributed decision systems, complex systems and complexity in decision-making, coordination and inferencing in distributed sensor networks, multi-scale decision models, negotiation protocols, computational grids, biological and natural and systems), enterprise systems (multi-agent models of extended enterprises, dynamic pricing, contract portfolio selection, risk hedging in planning, cyberinfrastructure for enterprises), and design theory (distributed design, simulation based engineering design, life-cycle cost estimation, uncertainty propagation).

Research

Deshmukh, A. (Texas A&M PI), University Affiliated Research Center for Systems Engineering Research, 2008-2013, Department of Defense/National Security Agency, $10M with lead organization Stevens Institute and 16 other universities (ISEN portion not yet determined)

Deshmukh, A. (PI), A. Johnson (Co-PI) and J. Rohack (Co-PI), “EAGER: Engineering Incentives for Health Care Systems,” 2009-2011, National Science Foundation, $30,700

Yu Ding
Associate Professor
Ph.D., University of Michigan
yuding@iemail.tamu.edu

Dr. Ding’s research interests are in the area of quality and reliability engineering, with emphases on data-mining methods for analysis and design and optimal utilization of distributed sensor systems. His recent projects are funded by the National Science Foundation, the State of Texas, and industry. He teaches courses in quality control, change and anomaly detection, prediction methods, and design of experiments.

Research
Ding, Y. (PI), “Collaborative Research: Multi-accuracy Bayesian Models for Improving Property Prediction of Nanotube Buckypaper Composites,” 2010-2013, National Science Foundation, $178,233 (In collaboration with Chuck Zhang, Arda Vanli and Ben Wang at Florida State University)

Ding, Y. (PI) and F. Liang (Co-PI), “Collaborative Research: Efficient Probabilistic Approach Using Order Reduction and Hybrid Models -- A New Paradigm for Structural Dynamic Analysis,” 2009-2010, National Science Foundation, $80,970 (ISEN portion $64,150) (In collaboration with Jiong Tang at the University of Connecticut)

Ding, Y. (Co-PI) and Y. Ding (Co-PI), “ARI-LA: A Framework for Developing Novel Detection Systems Focused on Interdicting Shielded HEU,” 2007-2012, National Science Foundation and the Domestic Nuclear Detection Office of the U.S. Department of Homeland Security, $7.5 million research effort led by Bill Charlton (PI), Department of Nuclear Engineering, TAMU (ISEN portion $1,200,000)

Huang, J. Z. (PI), H. Sang (Co-PI), L. Soumendra and Y. Ding, “IAMCS Innovation Award: Parallelizable Gaussian Process Regression of Very Large, Non-stationary Spatial Datasets,” 2010-2011, Institute of Applied Mathematics and Computational Science, Texas A&M University, $37,500

Mallick, B. (PI), Y. Ding (Co-PI) and H. Liang (Co-PI), “Bayesian Hierarchical Models for Integrating Multi-resolution Information,” 2008-2010, Texas Higher Education Coordination Board Advanced Research Program, $150,000 (ISEN portion $50,000)


Yu Ding
Associate Professor
Ph.D., University of Michigan
yuding@iemail.tamu.edu

Dr. Ding’s research interests are in the area of quality and reliability engineering, with emphases on data-mining methods for analysis and design and optimal utilization of distributed sensor systems. His recent projects are funded by the National Science Foundation, the State of Texas, and industry. He teaches courses in quality control, change and anomaly detection, prediction methods, and design of experiments.

Research
Ding, Y. (PI), “Collaborative Research: Multi-accuracy Bayesian Models for Improving Property Prediction of Nanotube Buckypaper Composites,” 2010-2013, National Science Foundation, $178,233 (In collaboration with Chuck Zhang, Arda Vanli and Ben Wang at Florida State University)

Ding, Y. (PI) and F. Liang (Co-PI), “Collaborative Research: Efficient Probabilistic Approach Using Order Reduction and Hybrid Models -- A New Paradigm for Structural Dynamic Analysis,” 2009-2010, National Science Foundation, $80,970 (ISEN portion $64,150) (In collaboration with Jiong Tang at the University of Connecticut)

Ding, Y. (Co-PI) and Y. Ding (Co-PI), “ARI-LA: A Framework for Developing Novel Detection Systems Focused on Interdicting Shielded HEU,” 2007-2012, National Science Foundation and the Domestic Nuclear Detection Office of the U.S. Department of Homeland Security, $7.5 million research effort led by Bill Charlton (PI), Department of Nuclear Engineering, TAMU (ISEN portion $1,200,000)

Huang, J. Z. (PI), H. Sang (Co-PI), L. Soumendra and Y. Ding, “IAMCS Innovation Award: Parallelizable Gaussian Process Regression of Very Large, Non-stationary Spatial Datasets,” 2010-2011, Institute of Applied Mathematics and Computational Science, Texas A&M University, $37,500

Mallick, B. (PI), Y. Ding (Co-PI) and H. Liang (Co-PI), “Bayesian Hierarchical Models for Integrating Multi-resolution Information,” 2008-2010, Texas Higher Education Coordination Board Advanced Research Program, $150,000 (ISEN portion $50,000)


Yu Ding
Associate Professor
Ph.D., University of Michigan
yuding@iemail.tamu.edu

Dr. Ding’s research interests are in the area of quality and reliability engineering, with emphases on data-mining methods for analysis and design and optimal utilization of distributed sensor systems. His recent projects are funded by the National Science Foundation, the State of Texas, and industry. He teaches courses in quality control, change and anomaly detection, prediction methods, and design of experiments.

Research
Ding, Y. (PI), “Collaborative Research: Multi-accuracy Bayesian Models for Improving Property Prediction of Nanotube Buckypaper Composites,” 2010-2013, National Science Foundation, $178,233 (In collaboration with Chuck Zhang, Arda Vanli and Ben Wang at Florida State University)

Ding, Y. (PI) and F. Liang (Co-PI), “Collaborative Research: Efficient Probabilistic Approach Using Order Reduction and Hybrid Models -- A New Paradigm for Structural Dynamic Analysis,” 2009-2010, National Science Foundation, $80,970 (ISEN portion $64,150) (In collaboration with Jiong Tang at the University of Connecticut)
Faculty Accomplishments

Approach for Analyzing the Measurement Redundancy in Structured Linear Systems,” NFORMS Annual Meeting, Austin, Tex., November 2010

Professional Activities
Department Editor, IIE Transactions on Quality and Reliability

Richard M. Feldman
Professor
Ph.D., Northwestern University
richf@tamu.edu

Dr. Feldman specializes in applied probability, simulation and operations research. He teaches simulation, operations research, stochastic processes, and queueing theory, and has co-authored text books in these areas.

Research

Phillips, D. T. (PI) and R. Feldman (Co-PI), “HS-STEM (to support Master’s students in industrial and systems engineering with a homeland security specialization),” 2009, Department of Homeland Security, $390,000

Refereed Journal Articles

Proceedings and Other Publications

Professional Activities
Reviewer, Computers and Industrial Engineering
Reviewer, Journal of Manufacturing Systems
Reviewer, ACM Transactions on Modeling and Computer Simulation
Reviewer, Wiley Encyclopedia of Operations Research and Management Science

Gary M. Gaukler
Assistant Professor
Ph.D., Stanford University
gaukler@tamu.edu

Dr. Gaukler’s research interests center around the impact of automatic identification and sensor technologies such as RFID on supply chain operations. Currently, he is also working on designing robust sensor networks to prevent terrorists from smuggling nuclear materials into the United States. This research is funded jointly by NSF and the Department of Homeland Security. Dr. Gaukler directs the RFID and Supply Chain Systems Lab and teaches courses in operations management and logistics.

Research

Gaukler, G. (Co-PI) and Y. Ding (Co-PI), “ARI-LA: A Framework for Developing Novel Detection Systems Focused on Interdicting Shielded HEU,” 2007-2012, National Science Foundation and the Department of Homeland Security, $7.5 million research effort led by Bill Charlton (PI), Department of Nuclear Engineering, TAMU (ISEN portion $1,200,000)

Refereed Journal Articles

Proceedings and Other Publications

Presentations


Gaukler, G. M., “Detecting Illicit Nuclear Materials Smuggling,” IIE Annual Research Conference, Cancun, Mexico, June 2010

Gaukler, G. M., “Interdiction of Nuclear Materials Smuggling at Sea Ports,” IIE Annual Research Conference, Cancun, Mexico, June 2010


Gaukler, G. M., “Item-level RFID in a Retail Supply Chain: Dynamics of Tag Cost Sharing,”
Mays Business School, Texas A&M University, April 2010


**Professional Activities**

Member of Board, Oil & Gas RFID Consortium

Chair, Professional Recognition Committee, INFORMS

Session Chair and Organizer, IIE Annual Research Conference

Session Chair and Organizer, INFORMS Annual Meeting

Reviewer, Production and Operations Management

Reviewer, Management Science

Reviewer, Operations Research

Reviewer, Annals of Operations Research

Reviewer, International Journal of Production Research

Reviewer, Interfaces

**Research**

Gautam, N. (PI) and L. Ntaimo (Co-PI), “Reducing Energy Consumption in Data Centers,” 2009-2011, National Science Foundation, $240,000

**Refereed Journal Articles**


**Proceedings and Other Publications**


Polansky, R. and N. Gautam, “Stochastic Fluid-flow Models to Optimize Service Rate and Number of Servers,” INFORMS Annual Meeting, Austin, Tex., November 2010

**Presentations**


Gautam, N., “Multi-hop Wireless Networks: Distributed Optimization and Control,” Department of Management Studies Research, Indian Institute of Technology, Madras, India, December 2010

Faculty Accomplishments

Session Co-chair, Complex Systems, INFORMS Annual Meeting
Session Co-chair, Telecommunications, INFORMS Annual Meeting
Organizing Committee, IIE Annual Research Conference
Cluster Co-chair, Computing and Information Systems, IIE Annual Research Conference
Session Chair, IIE Annual Research Conference
President, IIE Computer and Information Systems Division
Regional Director and Treasurer, Central North America Omega Rho (Operations Research International Honors Society)
Member of Council, INFORMS Telecommunication Section
Associate Editor, INFORMS Journal on Computing
Associate Editor, Omega
Proposal Reviewer, Austrian Science Fund (FWF)
Reviewer, Operations Research
Reviewer, IIE Transactions
Reviewer, IEEE Transactions on Communications
Reviewer, IEEE Transactions on Automation Science and Engineering
Reviewer, Telecommunication Systems
Reviewer, European Journal of Operational Research
Invited Participant, Standard Performance Evaluation Corporation Research Group
Invited Participant, Frontiers of Controls, Games and Network Science, University of Texas
Andrew Johnson
Assistant Professor
Ph.D., Georgia Tech
ajohnson@tamu.edu
Dr. Johnson’s research interests are in productivity measurement, warehouse operations and design, web applications to support decision making, modeling and analysis of revenue management applied to logistics, reference model development for industrial systems, and enterprise transformation.

Research
Deshmukh, A. (PI), A. Johnson (Co-PI) and J. Rohack (Co-PI), “EAGER: Engineering Incentives for Health Care Systems,” 2009-2011, National Science Foundation, $260,000 (ISEN portion $230,700)

Refereed Journal Articles


Proceedings and Other Publications


Presentations


Johnson, A. L. and T. Kuosmanen, “Regulating Local Monopolies in Electricity Transmission: A Real-world Application of the StoNED Method,” Stewart School of Industrial and Systems Engineering, Georgia Institute of Technology, November 2010

Johnson, A. L. and T. Kuosmanen, “How to Test
the Effects of Operational Conditions and Practices on Productive Performance,” INFORMS Annual Meeting, Austin, Tex., November 2010


Pope, B. and A. L. Johnson, “The Relationship of Non-parametric Methods to Economies of Scale and Scope,” INFORMS Annual Meeting, Austin, Tex., November 2010


Professional Activities

Chair, Statistical Methods in Data Envelopment Analysis, INFORMS Annual Meeting

Chair, Productivity and Efficiency Measurement, Southern Economic Conference

Reviewer, Operations Research

Reviewer, European Journal of Operations Research

Reviewer, Production and Operations Management

Reviewer, International Journal of Production Research

Reviewer, Journal of the Operations Research Society

Reviewer, Annals of Operations Research

Reviewer, European Journal of Industrial Engineering

Reviewer, Journal of Productivity Analysis

Kiavash Kianfar
Assistant Professor
Ph.D., North Carolina State University
kianfar@tamu.edu

Dr. Kianfar’s primary research interest is the theory and application of mathematical programming. His recent research has been focused on valid inequalities for mixed integer programming problems. He has also done research on the application of mathematical programming, computer simulation, and stochastic models in production and healthcare systems. He teaches courses in optimization and mathematical programming.

Research

Ntaimo, L. (PI), A. Banerjee (Co-PI) and K. Kianfar (Co-PI), “Reducing Medication Errors in Pediatrics,” 2009-2010, National Science Foundation I/UCRC, through the Texas A&M Health Science Center, Center for Health Operation Transformation, $50,000

Refereed Journal Articles


Fathi, Y. and K. Kianfar, “An Efficient Model for the Crosscut Optimization Problem in a Wood
Faculty Accomplishments


**Proceedings and Other Publications**


Kianfar, K., “A Cutting Plane Journey: Towards a Unifying Framework,” Invited Seminar, Texas A&M University, College Station, March 2010


**Professional Activities**


Kianfar, K., “A Cutting Plane Journey: Towards a Unifying Framework,” Invited Seminar, Texas A&M University, College Station, March 2010


**Professional Activities**

Professor
Ph.D., Virginia Polytechnic Institute and State University
klutke@tamu.edu

Georgia-Ann Klutke

Dr. Klutke’s research interests are in the areas of applied probability and stochastic processes, with particular emphasis on problems that arise in production and service systems. Her work has examined queueing behavior, inspection and maintenance scheduling, product flow control, degradation processes, information structure in decision models and layout of retail facilities. She teaches courses in operations research, queueing theory, stochastic processes, engineering systems design, production operations, reliability and maintenance science.

**Research**


**Refereed Journal Articles**


**Proceedings and Other Publications**


**Presentations**

Klutke, G-A., “Reliability-based Design and Medical Device Safety”, IIE Annual Research Conference, Cancun, Mexico, June 2010

Klutke, G-A., “Stochastic Process Models in Reliability and Maintainability,” Department of Industrial Engineering, Universidad de los Andes,
Bogota, Colombia, March 2010

**Faculty Accomplishments**

**V. Jorge Leon**  
Allen-Bradley Professor in Factory Automation  
Joint Appointment with Engineering Technology  
Ph.D., Lehigh University  
jleon@tamu.edu

Dr. Leon’s research interests are in manufacturing system optimization, finite-capacity resource planning and scheduling, applications of combinatorial optimization and heuristic search. Recent work involves the study of collaborative distributed production systems and global manufacturing. (Dr. Leon’s primary appointment is to the Department of Engineering Technology and Industrial Distribution.)

**Professional Activities**
Panelist, GAANN Program, U. S. Department of Education

**Leon, J., “CIDESI-TAMU Program,” 2009-2013, CIDESI (Center for Engineering and Industrial Development)/CONACYT (National Council of Science and Technology), $500,000**

**Cesar O. Malave**  
Professor and Associate Dean for Recruitment and International Programs  
Ph.D., University of South Florida  
malave@tamu.edu

Dr. Malave’s research interests are in the area of manufacturing systems analysis and planning. He teaches graduate courses and conducts research in the area of manufacturing systems modeling and control. In his capacity as Associate Dean for International Programs in the Dwight Look College of Engineering, Dr. Malave leads the study abroad programs, negotiates international agreements, and liaisons with the TAMU Qatar campus.

**Sara McComb**  
Associate Professor  
Ph.D., Purdue University  
mccomb@tamu.edu

Dr. McComb’s research interests are in exploring team-level cognition by capturing individually-held mental models, the mental model convergence process among team members, and the impact of mental models on team performance; studying collaboration among healthcare professionals and its impact on patient care, with the intent to fundamentally change the way resident training is conducted; devising productivity enhancing strategies and tools that reduce the inherent uncertainty experienced by project teams, by examining project team design, team communication, organizational context, project complexity, and human-system interactions.

**Research**


McComb, S. A., A. Banerjee and K. Mehler, “Improving Medication Reconciliation: An Interdisciplinary Student Team Competition,” 2010, The Annenberg Foundation, through the Texas A&M Health Science Center, $40,000 (ISEN portion $6,000)


**Refereed Journal Articles**


**Presentations**

Reviewer, Journal of Engineering and Technology Management

Reviewer, IEEE Transactions on Engineering Management

Reviewer, Journal of Management

Reviewer, Human Factors

Reviewer, Engineering Management Journal

Reviewer, Theoretical Issues of Ergonomic Science

Erick Moreno Centeno
Assistant Professor
Ph.D., University of California, Berkeley
emc@iemail.edu

Dr. Moreno-Centeno’s research interests include network and combinatorial optimization, integer programming, and computational optimization. His research focuses in the design and analysis of optimization models and algorithms for decision theory, data mining, vehicle routing, and computational biology. Dr. Moreno teaches courses in mathematical programming.

Lewis Ntaimo
Associate Professor
Ph.D., University of Arizona
ntaimo@tamu.edu

Dr. Ntaimo’s research interests are stochastic programming, discrete event modeling and simulation, and systems modeling. His research focuses on decomposition algorithms for large-scale optimization problems characterized by uncertainty in the problem data. Applications include wildfire management, healthcare, facility location, and supply chain planning. He teaches courses in stochastic programming, systems thinking and analysis, facilities planning and material handling, and operations research.

Research


Ntaimo, L. (PI), A. Banerjee (Co-PI) and K. Kianfar (Co-PI), “Reducing Medication Errors in Pediatrics,” 2009-2013, National Science Foundation I/UCRC, through the Texas A&M Health Science Center, Center for Health Organization Transformation, $50,000

Ntaimo, L. (PI), X. Hu (Co-PI), Y. Hong (Co-PI), J. Nutaro (Co-PI) and M. Xue (Co-PI), “Collaborative Research: Integrated Weather and Wildfire Simulation and Optimization for Wildfire Management,” 2009-2013, National Science Foundation, $1,000,000 (ISEN portion $0,85)

Refereed Journal Articles

Ntaimo, L., “Disjunctive Decomposition for Two-Stage


**Proceedings and Other Publications**


**Presentations**


**Professional Activities**

**Brett A. Peters**

Professor and Department Head  
Ph.D., Georgia Institute of Technology  
bpeters@tamu.edu

Dr. Peters’ research interests include design, analysis, operation and control of manufacturing, distribution, and service systems. He concentrates on facilities design and management issues, including facility layout and material handling system design. He teaches courses in facilities design, material handling, and systems planning and operation.

**Research**


**Proceedings and Other Publications**


**Presentations**


**Professional Activities**

Member, Council of Industrial Engineering Academic Department Heads

**Don T. Phillips**

Chevron Professor  
Ph.D., University of Arkansas  
drdon@tamu.edu

Dr. Phillips teaching and research interests include lean manufacturing systems analysis,
Faculty Accomplishments

operations research, lean thinking, systems simulation, product cost flow analysis, and the analysis and control of remanufacturing/sustainment systems. In addition to his teaching and pedagogical interests, Dr. Phillips is currently the Director of the Homeland Security Research Initiatives for all engineering programs at TAMU. In this capacity, he develops interdisciplinary research teams to address both educational and research program initiatives in the Department of Homeland Security and other federal funding programs. He is currently active in several homeland security initiatives. Dr. Phillips is an IIE Fellow and a member of SME.

Research

Phillips, D. T. (PI) and R. Feldman (Co-PI), “HS-STEM (to support Master’s students in industrial and systems engineering with a homeland security specialization),” 2009-2012, Department of Homeland Security, $390,000

Referred Journal Articles

Professional Activities
Program Coordinator, Texas A&M University System Homeland Security Engineering Research

Member, Technical Advisory Board, Department of Homeland Security Center of Excellence

Donald R. Smith
Associate Professor and Director of distance Learning Program
Ph.D., University of Arkansas

Dr. Smith’s research interests are in large systems database design, highway segment data collection and analysis, systems simulation and cost modeling for advanced manufacturing systems. He teaches engineering economic analysis, computer programming, engineering management, industrial labor relations, facilities layout and design, and production planning and control. Dr. Smith is a member of the Advisory Council of the International Center for Sustainable Development for the Republic of Panama.

Research

Presentations
Smith, D. R., “Essential Skills and Attributes of Successful Project Management,” Catholic University of Panama, Panama City, Panama, January 2010

Halit Uster
Associate Professor
Ph.D., McMaster University

Dr. Üster’s research interests are in network design, supply chain logistics and applied optimization. His current research concentrates on network design problems with applications in logistics and communications. He teaches courses in operations planning, logistics, network optimization and heuristics. Dr. Üster directs the Logistics and Networked Systems Research Lab.

Referred Journal Articles


Presentations

INFORMS Annual Meeting, Austin, Tex., November 2010


Professional Activities
   Member, Review Panel, National Science Foundation

   Reviewer, Interfaces

   Reviewer, Transportation Research: Part E, Transportation Science

   Reviewer, European Journal of Operational Research

   Reviewer, IIE Transactions


Üster, H. and P. Kewcharoenwong, “Strategic Design of a Relay Network for Truckload Transportation,” Transportation Center, Northwestern University, February 2010


Üster, H. and P. Kewcharoenwong, “Design and Analysis of Relay Networks in TL and LTL Transportation,” INFORMS Annual Meeting, Austin, Tex., November 2010


Wilbert E. Wilhelm
Mike & Sugar Barnes Professor
Ph.D., Virginia Polytechnic Institute and State University
wilhelm@tamu.edu

Dr. Wilhelm specializes in the methodology and application of optimization, especially integer programming. His ongoing discipline-oriented research focuses on integer programming methods and his applied work deals with the design of supply chains, the location of homeland security and healthcare facilities, and the scheduling of operations in the healthcare field. He teaches courses in integer programming, linear programming, scheduling, and production and operations analysis. Professor Wilhelm is an IIE Fellow and a recipient of the IIE David F. Baker Distinguished Research Award and of the SME Gold Medal Award.

Research

Refereed Journal Articles


Proceedings and Other Publications

Presentations


Choi, S. and W. E. Wilhelm, “Criteria to Optimize an Operating Room Schedule,” INFORMS Annual Meeting, Austin, Tex., November 2010

Lee, C. and W. E. Wilhelm, “Dynamic Facility Location for the Assembly System Supply Chain,” IIE Annual Research Conference, Cancun, Mexico, June 2010


Professional Activities
   Session Organizer, IIE Annual Research Conference

   Session Organizer, INFORMS Annual Meeting
Justin T. Yates
Assistant Professor
Ph.D., State University of New York at Buffalo

Dr. Yates’ research interests are rooted in homeland security and defense applications (critical infrastructure protection, network interdiction) which utilize discrete and stochastic OR methodology in combination with Geographic Information Systems (GIS) tools. He is also interested in OR applications within the arena of asymmetric warfare as well modeling the dependence of commuter behavior on transportation network properties.

Research


Refereed Journal Articles

Presentations


Yates, J., “Evaluating the Affects of Network Composition on Network Interdiction,” IIE Annual Research Conference, Cancun, Mexico, June 2010

Yates, J., “Academic Job Search,” 9th Annual IIE Doctoral Colloquium, IIE Annual Research Conference, Cancun, Mexico, June 2010


Professional Activities
Member Organizing Committee, INFORMS Annual Meeting

Session Co-chair, INFORMS Annual Meeting


Track Co-chair, Homeland Security Track, IIE Annual Research Conference

Reviewer, Socio-Economic Planning Sciences

Reviewer, GeoJournal Special Issue

Reviewer, National Science Foundation
Graduate Degrees Awarded

Acharya, Sabitha B., M.Eng.  
(advisor, Guy Curry)

Allison, Samantha Ann, M.Eng.  
(advisor, Sara McComb)

Alvarado Palma, Diego, M.Eng.  
(advisor, Guy Curry)

Anekwit, Kittikun, M.Eng. (advisors, Guy Curry and Wilbert Wilhelm)

Bajaj, Sourav, M.Eng.  
(advisor, Guy Curry)

Bansal, Manish, M.S., “An Exact Algorithm for Optimal Areal Positioning Problem with Rectangular Targets and Requests” (advisor, Kiavash Kianfar)

Beard, Kenneth J., M.S.-ENSM  
(advisor, Don Smith)

Bhattacharjee, Rohan, M.Eng.  
(advisor, Halit Üster)

Bickston, Lucas William, M. S.  
(advisor, Richard Feldman)

Boonnumsirikij, Woraya, E.Eng.  
(advisor, Guy Curry)

Bowers, Diana Joyce, M.S.-ENSM  
(advisor, Don Smith)

Brown, Justin Wayne, M.S.  
(advisor, Don Smith)

Byon, Eunshein, Ph.D., “Simulation and Optimization of Wind Farm Operations under Stochastic Conditions”  
(advisor, Yu Ding)

Chandra Sekaran, Vivek, M.Eng.  
(advisor, Guy Curry)

Chang, Hanwen, M.Eng.

Chen, Yen-Chun, M.Eng.  
(advisor, Guy Curry)

Cheng, Peng, M.Eng.  
(advisor, Wilbert Wilhelm)

Choithirakunnel Jose, Nikhil, M.Eng.  
(advisor, Guy Curry)

Chuang, Jen-Chieh, M.Eng.  
(advisor, Georgia-Ann Klutke)

Coles, John Benjamin, M.Eng.  
(advisor, Justin Yates)

Dennis, Cody M., M.Eng.  
(advisor, Guy Curry)

Dhandapani, Arunselvakumar, M.Eng.  
(advisor, Guy Curry)

Doyle, Bradley Wayne, M.S.-ENSM  
(advisor, Don Smith)

Doyle, Justin Shane, M.Eng.  
(advisor, Guy Curry)

Engstrom, Ian Christopher, M.S.-ENSM  
(advisor, Don Smith)

Ertem, Makbule Zeynep, M. Eng.  
(advisor, Sergiy Butenko)

Flores Rodriguez, Carlos Paul, M.S.  
(advisor, Amarnath Banerjee)

Ganesan, Karthik Narayanan, M.Eng.  
(advisor, Gary Gaukler)

Gaonkar, Vinesh Ramachandra, M.Eng.  
(advisor, Guy Curry)

Gottlich, Leah Paige, M.Eng.  
(advisor, Guy Curry)

Han, Nami, M.Eng.  
(advisor, Gary Gaukler)

Hong, Soondo, Ph.D., “Analysis and Control of Batch Order Picking Processes Considering Picker Blocking”  
(advisors, Brett Peters and Andrew Johnson)

Iglesias, Gerardo Daniel, M.Eng.  
(advisor, Guy Curry)

Inamdar, Manjeet, M.S.  
(advisors, Don Smith and Guy Curry)

Janakiraman, Sreenath, M.Eng.  
(advisor, Guy Curry)

Jezierski, David John, M.Eng.  
(advisor, Guy Curry)

Joseph, Rony, M.Eng. (advisors, Sergiy Butenko and Gary Gaukler)

Joshi, Aditya Satish, M.Eng.  
(advisor, Guy Curry)

Kalyana Krishnan, Anantha R., M.Eng.  
(advisor, Guy Curry)

Kanuvukkarai, Raajesh Khumar, M.Eng.  
(advisor, Guy Curry)

Karanam, Nikhil, M.Eng.  
(advisor, Guy Curry)

Kaya, Guven, M.Eng.  
(advisor, Sergiy Butenko)

Kewcharoenwong, Panitan, Ph.D., “Relay Network Design in Logistics and Telecommunications: Models and Solution Approaches” (advisor, Halit Üster)

Kim, Youngchul, M.S.  
(advisor, Natarajan Gautam)
Graduate Degrees Awarded

Kondati, Nikhil Teja, M.Eng.  
(advisor, Guy Curry)  
Mueller, Anthony William, M.S.-ENSM  
(advisor, Don Smith)  
Revana, Karthik Gajendra, M.Eng.  
(advisor, Don Smith)

Kotagiri, Mohith Rao, M.Eng.  
(advisor, Guy Curry)  
Murillo Benavides, Roberto, M.Eng.  
(advisor, Guy Curry)  
Rivera, Elsa Lorena, M.Eng.  
(advisor, Guy Curry)

Kulandaivelu, Thanigaivel, M.Eng.  
(advisor, Guy Curry)  
Olivares, Mauricio, M.Eng.  
(advisor, Guy Curry)  
Rowland, Christopher S., M.Eng.  
(advisor, Guy Curry)

Lakshmanaswami, Pradheep, M.Eng.  
(advisor, Guy Curry)  
Padmanabhan, Prabhu, M.Eng.  
(advisor, Guy Curry)  
Rudrapatna Nataraja, Niranjan, M.S.  
(advisor, Andrew Johnson)

Lee, Hyun Soo, Ph.D., “Extraction of Contextual Knowledge and Ambiguity Handling for Ontology in Virtual Environment” (advisor, Amarnath Banerjee)

Lee, Li-Chung, M.Eng.  
(advisor, Georgia-Ann Klutke)  
Parthasarathy, Akshay, M.Eng.  
(advisor, Guy Curry)  
Saiyee Srivatsan, Ramnath, M.Eng.  
(advisor, Guy Curry)

Leiseca, Claudia Maria, M.Eng.  
(advisor, Don Smith)  
Perez Roman, Eduardo, Ph.D., “Simulation and Optimization Models for Scheduling Multi-step Sequential Procedures in Nuclear Medicine” (advisors, Lewis Ntaimo and Cesar Malave)  
Santos, Marie Emmeline, M.S.-ENSM  
(advisor, Don Smith)

Lin, Hui, Ph.D., “Models and Solution Approaches for Efficient Design and Operation of Wireless Sensor Networks” (advisor, Halit Üster)

Liu, Jinghan, M.Eng.  
(advisor, Wilbert Wilhelm)  
Perryman, Rebecca S., M.Eng.  
(advisor, Guy Curry)  
Satish, Nikalaus, M.Eng.  
(advisor, Guy Curry)

Lopez, Justin Carl, M.Eng.  
(advisor, Guy Curry)  
Pramudya, Richard, M.Eng.  
(advisor, Guy Curry)  
Selvaraj, Prabhu, M.Eng.  
(advisor, Guy Curry)

Magestad, Nathan Lloyd, M.S.-ENSM  
(advisor, Don Smith)  
Ragab, Ayman, Ph.D., “Supply Chain Network Design and Uncertain and Dynamic Demand” (advisor, Brett Peters)  
Seshadri, Girirengan, M.Eng.  
(advisor, Gary Gaukler)

McCall, Brian Andrew, M.S.  
(advisor, Don Smith)  
Raghu, Mahadevan, M.Eng.  
(advisor, Guy Curry)  
Shah, Samkit Dipakbhai, M.Eng.  
(advisor, Guy Curry)

McGaha, Michelle Leigh, M.Eng.  
(advisor, Georgia-Ann Klutke)  
Raghuuraman, Rajesh, M.Eng.  
(advisor, Guy Curry)  
Singh, Samrat, M.S.-ENSM  
(advisor, Don Smith)

Mitta, Chetan Reddy, M.Eng.  
(advisor, Wilbert Wilhelm)  
Rajaraman, Arun, M.Eng.  
(advisor, Guy Curry)  
Sinha, Parijat, M.Eng.  
(advisor, Guy Curry)

Moon, Chungkoo, M.S.  
(advisor, Amarnath Banerjee)  
Read, Timothy David, M.S.  
(advisor, Sara McComb)  
Sivaramakrishnan, Srividya, M.S.  
(advisors, Guy Curry and Natarajan Gautam)

Smith, Cicily Lawsha, M.Eng.  
(advisor, Guy Curry)

Solorio, Karina, M.Eng.  
(advisor, Lewis Ntaimo)

Son, Dong Hee, M.S.  
(advisor, Wilbert Wilhelm)
Graduate Students Honored

INFORMS Group Stays Involved

The Texas A&M INFORMS student chapter received a Cum Laude award at the 2010 INFORMS Annual Meeting in November. This is the 4th year in a row that the chapter has been recognized as exemplary. Current chapter president is Anurag Verma. Below, INFORMS members gather to participate in the Big Event, the annual student–run service event designed to give back to the Bryan/College Station community.

Jason Clepper was honored with the 2010 Association of Former Students Distinguished Graduate Student Award for Excellence in Teaching. His outstanding academic record and excellence in teaching were recognized and rewarded by the committee of nomination reviewers who chose him to receive this award. Clepper’s advisor is Brett Peters.

Eduardo Perez Roman was awarded the 2009-2010 George W. Kunze Prize by the Texas A&M Office of Graduate Studies for superior academic achievement, good citizenship, contributions to the community, and publication in a national or international journal. His dissertation is entitled “Simulation and Optimization Models for Scheduling Multi-step Sequential Procedures in Nuclear Medicine”. His advisors are Lewis Ntaimo and Cesar Malave.

Abhilasha Katariya attended the Doctoral Colloquium of the Institute of Industrial Engineers Annual Research Conference where her poster entitled “An Integrated Replenishment and Liquidation Model for a Capacitated Inventory System” was awarded first place. Katariya’s advisors are Sila Çetinkaya and Elim Tekin.