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Comparisons to similar departments of the Peer 11 land grant universities: Arizona, Illinois, Iowa State, Michigan State, Minnesota, North Carolina State, Ohio State, Purdue, Texas A&M, Wisconsin.

Our undergraduate degree productivity is more than that of our peers.

We have had steady growth in our graduate student population.

The number of our funded proposals has doubled from the previous year.
Our undergraduate student enrollment is at an all-time high and includes a growing female population.

Enrollment continues to increase for our department.

Our number of undergraduate degrees awarded is steady for ConE and continues to rise to CE.

At only 6 months after graduation, we are already at 85% placement!

The number of graduate degrees remains steady.

In 2010, 195 BS degrees were awarded, 34 to women. Of those degrees, 119 were in CE (29 to women), and 77 were in ConE (5 to women).

There were 37 Master’s degrees awarded in 2010, 7 to women, and 12 doctorate degrees, 4 to women.
CIVIL

Temara (Tammy) Nicholson, P.E. (CHAIR), Director, Office of Rail Transportation, Iowa Department of Transportation

William C. Anderson, P.E., Executive Director, CESB

Jolee Belzung, P.E., Director of Municipal Utilities, City of Ankeny

Robert A. Crandall, P.E., Black & Veatch Corporation

Craig, K. Denny, Ph.D., P.E., Senior Principal Engineer, Terracon Consultants, Inc.

David Fox, Fox Engineering Associates

Matt Garber, P.E., L.S., Iowa Transportation Museum

Paul Giroux, Sr. Project Engineer, Kiewit Pacific Co.

Mike Helms, Stanley Consultants, Inc.

Keri Homberg, University of Iowa

Les Kempers, P.E., Vice President-Marketing & Sales, Rocky Mountain Prestress

Sandra G. Larson, P.E., Iowa DOT, Research and Technology Bureau Director, Highway Division

Jack F. McGuire, Director, Structures Eng. & Technology Development (retired), Boeing Commercial Airplanes

Kim L. McKeown, P.E., President, HGM Associates Inc

Shashi Nambisan, Professor, Chair, CCEE, Iowa State University

Micheline Scherer, University of Iowa

Matt Streeter, P.E., President, MD Streeter & Associates

Rick Tollakson, President, Hubbell Realty

Mike VanderWelt, P.E., M.ASCE, Calhoun-Burns and Assoc. Inc.

Denton ‘Red’ Voss, P.E., Chief Engineer Water Sector, Black & Veatch Corporation

Scott Werner, P.E., EFCC Corporation

Jim Alleman (Ex-officio), Professor and Chair, CCEE, Iowa State University

CONSTRUCTION

Larry Hopp, (CHAIR), Vice President/Area Manager, Kiewit Construction Company

John Adam, Interim Director, Highway Division, Iowa Department of Transportation

Dan Biere, HNTB Corp.

Ken Bonus, West Des Moines, IA

Steve Daxon, Vice President, Estes Construction

Beth Duyvejonck, Opus Northwest

Mike Espelet, President, Story Construction Company

Paul Francois, Pepper Construction Co. of Ohio

Michael Gawley, President, Oakview Construction Company

Mark Guetzko, President, Seedorf Masonry, Inc.

Paul Higgins, Managing Director, The Beck Group

Stephen Jackson, President, Cedar Valley Corporation

Colleen Ladd, Project Manager, Flannery Construction

Dean McCormick, Director for Design and Construction Services, Facilities Planning and Management, ISU

Mark McDermott, Project Manager, Black & Veatch

T.J. Meiners, Electrical Engineer/Project Manager, Nelson Electric Company

Kent Meyn, Director of Project Management, ACI Mechanical, Inc.

Dave Miller, Senior Vice President, The Waldinger Corporation

Josh Miltenberger, Project Manager, Russell Construction Company

Skip Perley, CEO, TC-ECORP

Cork Peterson, Vice President, Peterson Contractors, Inc.

Gene Postma, President, CEO, Western States Fire Protection Co.

Dr. Fred Rahbar, Project Management, Saudi Arabian Oil Company (Saudi Aramco)

Dirk D. Schafer, Executive Vice President, J.E. Dunn Construction Company

Jeff Smith (alternate), Opus Northwest

Ken Sorensen, Vice President, General Manager, Minneapolis Office, M. A. Mortenson Company

Brian Wassels, Project Manager/Estimator, Greiner Construction Co. Bldg. Division

2010 GRADUATION STUDENTS

<table>
<thead>
<tr>
<th>Student Name</th>
<th>Division</th>
<th>Degree</th>
<th>Major Professor</th>
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ANNUAL UPDATE 2010 - 2011

CCEE FACULTY RESEARCH INTERESTS

Robert E. Abendroth
Associate Professor
Division: Structures
Research Interests:
- Steel Structures
- Integral Abutment and Integral Piers for Bridges
- Intermediate Diaphragms in Prestressed Concrete Bridges
- Stay-In-Place Bridge Deck Forming
- Aluminum Bridge Girders
- Composite Metal Floor Decks

James E. Allleman
Department Chair and Professor
Division: Environmental - Water Resources
Research Interests:
- Wastewater and residuals treatment
- Wastewater nitrogen removal via nitrification and denitrification systems
- Cement carbon concentration, capture, and conversion
- Constructed wetlands wastewater systems - highway rest stop applications
- Beneficial reuse of waste foundry sand and aspects of trace metal contaminant release and impacts
- Thermophilic wastewater and residuals processing including autotermal thermophilic aerobic digestion (ATAD)
- Coal ash radiation release
- Waste brine reuse in relation to highway anti-icing and deicing
- Constructive reuse of wastewater residuals including brick manufacture

Jeremy C. Ashlock
Associate Professor
Division: Geotechnical - Materials
Research Interests:
- Full-scale multi-modal dynamic testing of surface and deep foundations
- Development of instruments and techniques for in-situ and laboratory soil testing
- Advances in experimental and analytical techniques in Resonant Column testing
- Use of recycled materials in geotechnical engineering
- Computational mechanics
- Scaled-model geotechnical centrifuge experimentation
- Parallel computing
- Soil dynamics and soil-structure interaction
- Geotechnical earthquake engineering
- Design, analysis and testing of wind turbine foundations

Halil Ceylan
Associate Professor
Division: Geotechnical - Materials
Research Interests:
- Analysis and design of pavement systems
- Nondestructive testing and evaluation of transportation infrastructure
- Transportation soils and pavement materials engineering
- Use of neural networks in engineering
- Smart engineering systems design

Timothy G. Ellis
Assistant Chair and Associate Professor
Division: Environmental - Water Resources
Research Interests:
- Municipal wastewater and biosolids treatment and nutrient removal
- Anaerobic treatment of industrial and agribusiness wastewater
- Physical-chemical and aerobic biological treatment processes for wastewater
- Resource recovery from waste/wastewater
- Energy recovery from animal wastes

Fouad S. Fanous
Professor
Division: Structures
Research Interests:
- Response of highway pavements to heavy farm implements
- Performance of bridge decks
- Bridge Management System
- Finite element analysis-application to complex structures
- Shell bridges-new bridge type
- Bridge strengthening
- Testing and analysis of small-scale structural models
- Reliability Assessment of nuclear containment strength under severe accident loads
- Static and dynamic analysis of transmission lines

Nadia Gloritz
Assistant Professor
Division: Transportation/Surveying
Research Interests:
- Transportation systems evaluation
- Transportation economics
- Transportation applications of econometrics
- Highway safety and modeling
- Transportation energy

Doog Gramsberg
Professor, Donald and Sharon Greenwood Professor in Construction Engineering
Division: Construction
Research Interests:
- Alternative project delivery methods
- Constructability
- Heavy highway construction methods
- Pavement preservation

Roy Gu
Associate Professor
Division: Environmental - Water Resources
Research Interests:
- Surface water hydrology and modeling
- Environmental hydraulics
- Surface water quality monitoring and modeling
- Fate and transport of toxic pollutants in surface water

Shauna Hallmark
Associate Professor
Division: Transportation/Surveying
Research Interests:
- Transportation systems planning
- Safety
- Traffic safety

Charles T. Jahren
Associate Professor, Warren Scholar of Distance Education in Civil Engineering
Division: Construction
Research Interests:
- Construction administration
- Improvement for highway and heavy construction
- Data collection and reporting
- Inspection and construction administration
- Scheduling: Web based specifications
- Construction process improvement for highway and heavy construction
- Embankment quality: Asphalt construction, especially processes using cold mixes and emulsions; Cold-in-place asphalt recycling; Chip seals; Microsurfacing and slurry seals

Edward J. Juselkis
ConE Professor-in-Charge, W. A. Klinger Teaching Professor in Civil Engineering
Division: Construction
Research Interests:
- Training programs
- Laser scanning
- Object-oriented specifications
- Field data collection and analysis
- Machine control using global positioning systems

Edward J. Kannel
Professor (Retired Dec 2010)
Division: Transportation/Surveying
Research Interests:
- Transportation systems safety and risk analysis
- Planning and policy
- Management
- Air transportation
- Education and outreach
- Program development and management

Shashi Namisban
Professor
Division: Transportation/Surveying
Say-Kee Ong
Professor and Division Leader
Division: Environmental - Water Resources

Research Interests:
• Physical-chemical and biological reactors for treatment of industrial wastewater
• Physical-chemical treatment processes for drinking water and water reuse
• Fate and transport of hazardous compounds in engineered and natural systems
• Site remediation technologies for contaminated sites

Max L. Porter
University Professor
(Retired Dec 2010)
Division: Structures

Chris R. Rehmann
Associate Professor
Division: Environmental

Research Interests:
• Environmental fluid mechanics
• Turbulence and mixing in natural flows
• Fate and transport of pathogens
• Environmental multiphase flows

Matt Rouse
Assistant Professor
Division: Structures

Research Interests:
• Extreme events engineering
• Accelerated construction
• Fiber reinforced and ultra-high performance concrete
• Structural performance evaluation
• Power transmission structures

Vern R. Schaef er
Professor
Division: Geotechnical - Materials

Research Interests:
• Landslides and slope instability
• Ground improvement
• Numerical applications to geotechnical engineering
• Foundation engineering

Jennifer Shane
Assistant Professor
Division: Construction

Research Interests:
• Integrated project delivery
• Cost estimation and management
• Project management

Reginald Souleyrette
Professor and Division Leader, Gerald and Audrey Olson Professor of Civil Engineering
Division: Transportation

Research Interests:
• Transportation applications of GIS
• Transportation planning and modeling, safety/infrastructure management systems
• Remote sensing

Sri Sritharan
Associate Chair and Professor, Wilson Engineering Professor
Division: Structures

Research Interests:
• Seismic design
• Buildings
• Bridges
• Earthquake-resistant design of structures
• Precast concrete structural systems
• Soil-structure interaction

Hans van Leeuwen
Professor
Division: Environmental - Water Resources

Research Interests:
• Resource recovery from food processing wastewater
• Fungal treatment processes of wastewater and lignocellulosic wastes
• Activated sludge treatment
• Ship ballast water treatment with ozonation

Kejin Wang
Associate Professor and Division Leader
Division: Geotechnical - Materials

Research Interests:
• Municipal wastewater and sludge treatment and nutrient removal
• Anaerobic treatment of industrial and agribusiness wastewater and sludge
• Bio-energy and nutrient recovery from organic wastes

David L. White
Associate Professor
Waldo W. Wegner Associate Professor in Civil Engineering
Division: Geotechnical - Materials

Research Interests:
• Soil compaction
• Ground improvement
• Soil-structure interaction
• In-situ testing

Christopher Williams
Associate Professor
Division: Geotechnical - Materials

Research Interests:
• Bridge engineering
• Nondestructive evaluation
• Structural health monitoring
• Timber bridges

Maxwell K. Bickford
Professor
Division: Transportation

Research Interests:
• Power transmission structures
• Accelerated construction
• Stiff member bridge design
• Fatigue analysis

Christopher Williams
Associate Professor
Division: Geotechnical - Materials

Research Interests:
• Bridge engineering
• Nondestructive evaluation
• Structural health monitoring
• Timber bridges

Jenny Baker
Lecturer

LaDon Jones
Senior Lecturer

Brad Perkins
Lecturer

Tom Stout
Lecturer

Marlee Walton
Senior Lecturer

Lecturers