

## Construction Management Appendix

### Grant Applications/Awards

#### Akhnoukh, A. Funded Proposals:

Proposal Title	Funding Agency	Duration	Funded Amount	Months of effort/year	Your Role (PI,C PI,C)
Reinforcement Bars Dectors	Arkansas Space grant Consortium	12 month	\$2500	1 month	PI
Development of Light Weight Concrete using Environmental Friendly Materials	Arkansas Space Grant Consortium	12 month	\$2500	1 month	PI
Development of Green High Strength Concrete Mixes	Arkansas Space Grant Consortium	6 month	\$6500	2 months	PI
Investigating the need for construction engineering programs	Arkansas Department of Higher Education	12 month	\$ 4000	1 month	PI
Establishing UALR High Performance Concrete Laboratory	Master Builders Silica Fume Association	24 month	\$ 500	1 month	PI
Establishing UALR High Performance Concrete Lab.	Chryso Chemicals, Holcim Cement, Silica Fume Assoc.	24 month	\$500	6 month	PI
Egyptian Scholars and Researchers Annual Meeting	Egyptian Cultural and Educational Bureau	1 month	\$1000	1 month	C

#### Xie, H. Funded Proposals

Proposal Title	Funding Agency	Duration	Funded Amount	Mon. of effort/year	Your Role (PI,CPI, C)
Implementing Sustainability Concepts in Building Information Modeling Course	UALR Sustainability Committee Grant Competition	3 mon	\$500	3 mon	PI
Post-Construction Use of Building Information Models for the Mechanical, Electrical, and Plumbing	UALR Sustainability Committee Grant	1 mon	\$494.99	1 mon	PI

Use of RFID in Steel Structures	Kathleen T. Hall Charitable Grant	May 2010 - Present	\$500	May 2010 - Present	PI
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## Submitted Proposals

### Akhnoukh, A. submitted proposals:

- “Non-Destructive Testing of Bridge Decks Poured on Stay-In-Place Metal Forms”, submitted to the Arkansas Highway and Transportation Department (AHTD), \$ 160,000, (PI)
- “Self-Cured Concrete Properties” submitted to the Arkansas Highway and Transportation Department (AHTD), \$160,000 (Co PI)
- “Investigating the Need for Construction Engineering Program” submitted to the Arkansas Department of Higher Education (ADHE), \$4000 (PI)
- “The Development of Green Concrete using Rice Ash as a Supplementary Cementitious Material” submitted to the Arkansas Department of Higher Education (ADHE), \$4000 (PI)
- “Development of Light Weight Concrete using Environmental Friendly Materials” submitted to the Arkansas Space Grant Consortium (ASGC), \$2500 (PI)
- “Development of Green High Strength Concrete Mixes” submitted to the Arkansas Space Grant Consortium (ASGC), \$6500 (PI)
- “Reinforcement Bars Detector” submitted to the Arkansas Space Grant Consortium (ASGC), \$2500 (PI)
- “Establishing a Scientific Collaboration with Egyptian Universities” submitted to the Middle East Studies Program at the University of Arkansas at Little Rock, \$3000 (PI)

### Carr, J., Submitted Proposal

- A proposal to the National Housing Endowment for funds (\$100,000) to support the construction of a “Green Built“ home. The proposal was not funded

### Xie, H. Submitted Proposals

- Strategies of Building Information Modeling Training in the Electrical Contracting Firms, Electri International Fund, \$36,000, (PI).
- Xie, H., “Post-Construction Use of Building Information Models for the Mechanical, Electrical, and Plumbing Systems in Educational Buildings”, proposal submitted to University of Arkansas at Little Rock Sustainability Grant Application, January 15, 2010. (Declined)

## Public Service

### Lectures and presentations, discipline-based, to non-discipline related audiences

- Squires, M., Children International, College preparation mentor

### Consultantships (paid)

#### Carr, J.

- Taught a one day class “*Building a Home*”, for the National Association of Home Builders to Arkansas and Oklahoma Occupational Safety and Health Administration Officials. (8 Hours)
- Taught a one day class “*Estimating*”, for the Springfield (Mo.) Home Builders Association. (8 Hrs)
- Taught a two day class “*Advanced Green Building*” for the Indiana Home Builders Association. (8 Hrs)
- Taught a two month course at the Xi’an (China) University of Architecture and Technology. The students in the course were a group of 31 government officials. The course was to prepare the students for a semester long course at the Public Policy Institute at Duke University.

#### Ray, C.

- RTH Commercial Construction Seminar Presentations
- RTH Commercial Contract Fundamentals
- RTH Commercial Documentation
- Construction Systems Inc. Proposal Development
- KDC Contract negotiation and review for Mid America Rehab Center HealthSouth n Overland Park, KS between KDC and Doster Construction

#### Squires, M.

- Consulted on residential remodeling work

## Professional, University, and Community Service

#### Akhnoukh, A.

- College Awards Committee, Chair
- College Graduate Curriculum Committee, Secretary
- University Undergraduate Research Committee, Member
- American Concrete Institute, Arkansas Chapter, Board Member
- American Society for Civil Engineers, Member
- National Ready Mix Association, Member
- Associated Schools of Construction, Member
- Egyptian Association of Professional Engineers
- International Road Federation, Member

- American Concrete Institute (State Chapter) AR. Monthly
- Portland Cement Association, AZ Feb. 2010
- Egyptian Society of Civil Engineers, Cairo, Egypt June 2010
- Portland Cement Association, IL Sep. 2010
- American Concrete Institute (National), PA. Oct. 2010
- Associated Schools of Construction, TX., Oct. 2010
- Associated Schools of Construction , AL. Oct. 2010
- Arkansas Ready Mix Concrete Association, AR. Nov. 2010
- Arkansas Highway and Transportation Dept., AR. Nov. 2010

**Blacklock, J.**

- University Fringe Benefits Committee, Member
- University Library Committee, Member
- College Promotion and Tenure Committee, Member
- College Graduate Curriculum Committee, Member

**Carr, J.**

- Associated Schools of Construction Region V Director
- EIT Assembly Secretary
- University Athletic Committee, Chair
- College Retention and Recruitment Committee, Member
- College Assessment Committee, Member
- HBA of Greater Little Rock Board of Directors, Member
- HBA of Greater Little Rock Associates Council, Member
- HBA of Greater Little Rock Education Committee, Co-chair
- HBA of Greater Little Rock Green Building Council, Member
- Arkansas Home Builders Association Board of Directors, Member
- Arkansas Home Builders Association, Education Committee, Member
- Arkansas Home Builders Association, Association Committee, Representative
- NAHB National Board of Directors, Member
- NAHB Education Board, Member
- NAHB Health and Safety Committee, Member
- NAHB Faculty Advisory Board, Member
- Attended the National Association of Home Builders Annual Meeting
- Attended the American Council for Construction Education Annual and Mid-year meetings
- Attended the Associated Schools of Construction Annual Meeting.
- Attended the Associated Schools of Construction Region V Annual Meeting.
- Attended the National Association of Home Builders Meeting, Washington D.C.
- Attended the National Association of Home Builders Meeting, New York, City
- Attended the Home Builders Association of Greater Little Rock meetings
- Judge for National Association of Home Builders Safety Awards for Excellence

**Jovanovic, N.,**

- Faculty Senate, Senator from EIT, University
- Honors and Awards, Member, University
- Curriculum Committee, Chair, Department
- Started the process to start a student chapter of the American Society of Civil Engineers (ASCE)
- Presented to the National Advisory Board on Construction Engineering
- Presented to the Construction Management Department Advisory Board on Construction Engineering

**Ray, C.**

- University Library Committee Chair
- Committee on Committee Member
- Attended Pre-Engineered Building Council
- Construction Specifications Institute North Central Region Conference Green Bay

**Squires, Mark**

- Faculty sponsor for the National Timber Bridge Design Competition team
- BEST Robotics Field Construction and set up
- Host Lead Abatement workshops by the Homebuilders Association
- Organized Sharefest volunteer work

**Tramel, M.**

- Visiting Professor of Xi'an University of Architecture and Technology, Xi'an, Shaanxi, China
- ASC/TEXO Region V meeting and Educator Conference
- ASC/TEXO Regional Student Competition and Regional Meetings
- Arkansas Construction Education Foundation OSHA 30-hour safety classes
  - Fire protection
  - Emergency response plans
  - Fall protection
  - Personal protective equipment
  - Flammable and Combustible Liquids
- CSI's Certified Construction Contract Administrators curriculum, taught five courses:
  - Communication
  - Project Delivery
  - Quality
  - Claims and Disputes
  - Modifications
- Hosted ACEF's 2010 state wide Graduation Ceremony
- American Institute of Constructors, Constructor, CPC's Associate Level Exam Administrator
- International Code Council
  - Code Compliance Certification Exam Administrator
  - Contractor Certification Exam Administrator
- Local Education Administrator for Arkansas Workforce Education training funds for the

- Arkansas Construction Education Foundation
- Central Arkansas Joint Apprenticeship Committee
- Little Rock Electrical Joint Apprenticeship and Training Committee
- Charter Faculty Advisor for Sigma Lambda Chi, the International Honor Society for Leaders in Construction
- Faculty coach for the ASC/TEXO Commercial Division Student Competition Team
- University Undergraduate Council, Co-chair
- University Environmental Health and Safety Committee, Member
- College Undergraduate Curriculum Committee, Chair
- Faculty Senator
- University Core Pilot Program, Member
- Judge for ABC 2011 Excellence in Construction Awards

**Woodard, J.**

- Professional Design engineer for Children International and the Construction Management Department. Does PE Stamped calculations and drawings.

**Xie, H.**

- University Dean Search Committee
- University Campus Campaign Steering Committee
- University Academic Technology and Computing Committee
- University Policy and Personnel Advisory Committee
- College Ph.D. Engineering Task Force

## **Professional Development**

**Carr, J.**

- Attended four seminars at the International Builders Show in Las Vegas, Nevada.
- Participated in the American Council of Construction Education Mid Year Meeting in Albuquerque, NM and the Annual Meeting in Boise, ID.
- Attended the Associated Schools of Construction (ASC) Annual meeting hosted by Wentworth University, Boston, MA.
- Attended the Associated Schools of Construction (ASC) Regional Meeting hosted by TEXO in Dallas, TX.

**Jovanovic, N.,**

- ABET Program Evaluator (PEV) web-based training, May 2010.
- ABET PEV face-to-face training, June 19-20, 2010, Louisville, KY
- ABET Faculty Workshop on Sustainable Assessment Practices, October 27, 2010, Baltimore, MD

**Squires, M.,**

- Taking construction engineering courses in order to obtain the BS degree
- UAMS Teaching Technologies Symposium

**Tramel, M.**

- ASC/TEXO Regional meeting and attended three presentations
- Scaffold Training Institute Competent Person, Hands On, Design and Loading, Rigid and Suspended Scaffold Train the Trainer Course, 4 Days, completed by examination
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**Woodard, J.**

- 2010 Spring Concrete Seminar, April 21, 2010, 6 learning units, AHTD Building, Little Rock.
- CSI Concrete Solving Issues, July 8, 2010, 5 learning units, Jonesboro, Arkansas
- Decorative Concrete Seminar, University of Arkansas, Fayetteville, Arkansas, Sept 28, 2010, 2.2 learning units
- ACI, Engineering of Anchorage to Concrete, Little Rock, Arkansas, November 9, 2010, 7.5 learning units.
- Attended the World of Concrete conference seminar on Concrete Slabs

**Professional Associations, Memberships, Certifications, and Registrations****Akhnoukh, A.**

- American Society of Civil Engineers
- American Concrete Institute, Board Member
- International Road Federation
- National Ready Mix Association
- Precast/Pre-stressed Concrete Institute
- Engineering in Training
- Egyptian Association of Professional Engineers

**Blacklock, J.**

- American Society of Civil Engineers, life member
- ASCE Structures Institute
- ASCE Geotechnical Institute
- ASCE Construction Institute
- Arkansas Governor's Earthquake Advisory Council
- Licensed Professional Engineer (Arkansas & Texas)

**Carr, J.**

- Graduate Master Builder
- NAHB Green Certification
- Associated Schools of Construction Member
- Arkansas Home Builders Association Board of Directors

- Arkansas Home Builders Association Education Committee
- Arkansas Home Builders Association Associates Council
- HBA of Greater Little Rock Board of Directors
- HBA of Greater Little Rock Education Committee
- HBA of Greater Little Rock Associate Council
- HBA of Greater Little Rock Green Building Council
- NAHB Board of Directors
- NAHB Education Committee
- NAHB Health and Safety Committee
- NAHB Faculty Advisory Board
- NAHB Graduate Master Builder Certification
- NAHB University of Housing Certified Instructor

**Jovanovic, N.,**

- American Society of Civil Engineers (ASCE) - member
- ASCE Construction Institute (CI) - member of Construction Engineering Education Committee
- ASCE Architectural Engineering Institute (AEI) - member
- Engineers Without Borders (EWB) - member
- American Society of Mechanical Engineers (ASME) - member
- American Society of Heating, Ventilating, Air-Conditioning, and Refrigerating Engineers (ASHRAE) - member
- American Society for Engineering Education - member
- Accreditation Board for Engineering and Technology (ABET) - Program Evaluator (PEV) for civil engineering, construction engineering, and architectural engineering programs.

**Ray, C.**

- CSI, Little Rock Chapter, member
- American Bar Association, member
- American Arbitration Association, member
- American Institute of Constructors
- CMAA
- CSI, Certified Construction Contract Administrator (by examination)
- AIC, Certified Professional Constructor (by examination)

**Squires, M.**

- American Institute of Constructors, Professional Constructor
- AIC Certified Professional Constructor
- Construction Specification Institute Professional Member
- CSI Construction Document Technologist (certification by examination)
- NAHB Professional Member
- International Code Council, Arkansas and National member
- Forest Product Society



- Sigma Lambda Chi, the International Honor Society for Leaders in Construction, Delta IV Chapter, Member
- Alpha Sigma Lambda Honor Society, Member

#### **Tramel, M.**

- Certified Competent Person for Design and Loading of Rigid and Suspended Scaffolds, #23809, July 2010 Certification by examination
- Certified Safety and Health Official, July 2008, 2nd Certification by examination
- Certified Professional Constructor, #682, since 1998 by examination, 3<sup>rd</sup> Certification by CEUs 2003
- Certified Construction Contract Administrator, #1360753, since 2000 by examination, 3rd Certification by CEUs, 2006
- Certified ACI Concrete Field Testing Technician Grade, 1 #977541, since 1997, 3<sup>rd</sup> Certification, by examination, 2003
- Certified ACI Concrete Flatwork Technician, #977541, 1<sup>st</sup> Certification by examination, 2003
- Certified OSHA Construction Industry Outreach Trainer #246817, since 1999 by examination, 3rd Certification by examination, 2006
- Certified Construction Quality Management for Contractors, since 1997 by examination 2006
- Certified Crane Rigger, since 1998 by examination
- CSI Construction Document Technologist (certification by examination)
- OSHA Construction Industry Outreach Trainer (by examination)
- OSHA General Industry Outreach Trainer (by examination)
- US Army Corps of Engineers Certified Construction Quality Management for Contractors (by examination)
- American Society of Safety Engineers, Member
- American Institute of Constructors, Professional Constructor
- Construction Specification Institute Professional Member
- Golden Key National Honor Society, member
- Epsilon Pi Tau, the International Honor Society for Professionals in Technology, Sigma Chapter member (past vice-president)
- Phi Kappa Phi Honor Society, member
- Phi Theta Kappa National Honor Society, member
- Sigma Lambda Chi, the International Honor Society for Leaders in Construction, Delta IV Chapter, charter member

#### **Woodard, J.**

- American Concrete Institute-Arkansas President of the Board of Directors
- Licensed Professional Engineer in 11 states: Alabama, Arkansas, Georgia, Kansas, Kentucky, Michigan, Mississippi, Louisiana, Oklahoma, Tennessee, Wisconsin
- Licensed Professional Surveyor, Louisiana
- American Society of Professional Estimators-Charter Member
- American Welding Society
- Arkansas Society of Professional Engineers

- National Society of Professional Engineers
- National Ready Mix Concrete Association, Quality Control Committee
- National Ready Mix Concrete Association, Flatwork Finishers Certification Committee
- American Concrete Institute, Certified Examiner for ACI Flatwork Examination
- American Society of Testing Materials
- Tau Beta Pi Engineering Honor Society, member
- Phi Kappa Phi Honor Society, member
- Sigma Xi, The Scientific Research Society, member
- Sigma Lambda Chi Construction Honor Society

#### **Xie, H.**

- Registered as Professional Engineer in Civil Engineering with specialty in Construction Engineering (Registered #13655), Arkansas Board of Registration for Professional Engineers Land Surveyors
- American Society of Civil Engineers, member
- American Society for Engineering Education, member
- Associated Schools of Construction, member
- Association of American Colleges and Universities, member
- American Institute of Constructors, Professional member
- AIC Certified Professional Constructor
- Construction Specifications Institute, Professional member
- CSI Construction Document Technologist (certification by examination)
- National Association of Home Builders, member
- Sigma Lambda Chi, the International Honor Society for Construction, Delta IV Chapter (SLC)

### **Research/Creative Activities**

#### **Research articles in professional journals**

##### **Akhnoukh, A. Published**

- **Akhnoukh, A.**, Xie, H., “Welded Wire Fabric versus Random Steel Fibers in Precast/Prestressed Ultra-High Performance Concrete I-Girders”, *Elsevier Journal of Construction and Building Materials*, Nov., 2010
- **Akhnoukh, A.**, "The Effect of Confinement on Transfer and Development Length of 0.7 in Prestress Strands" *Concrete Bridge Conference*, Phoenix, Arizona, Feb., 2010
- Xie, H., **Akhnoukh, A.**, “Post-Construction Use of Building Information Models for the Mechanical, Electrical, and Plumbing Systems in Medical Projects” *6<sup>th</sup> International Engineering and Construction Conference*, Cairo, Egypt, June, 2010

- **Akhnoukh, A.**, Meadati, P., Carr, J. “Bond Behavior of 0.7 in. Prestressing Strands in Pretensioned Applications” *Second International Conference on Construction in Developing Countries*, Cairo, Egypt, Aug. 2010.
- Meadati, P., Irrizary, J., and **Akhnoukh, A.**, “BIM and RFID Integration: A Pilot Study” *Second International Conference on Construction in Developing Countries*, Cairo, Egypt, Aug. 2010.
- Xie, H., **Akhnoukh, A.**, and Shi, W., “Implementing Sustainability Concepts in building Information Modeling Course” *Second International Conference on Construction in Developing Countries*, Cairo, Egypt, Aug. 2010.
- Carr, J., Type, R., and **Akhnoukh, A.**, “A Green Approach to Site Preparation” *Second International Conference on Construction in Developing Countries*, Cairo, Egypt, Aug. 2010.
- **Akhnoukh, A.**, “The Application of Ultra-High Performance Concrete in the United States of America” *Associated Schools of Construction Regional Conference*, Dallas, TX, Oct., 2010

#### **Car, J., Published**

- Carr, Jim; Tyne, Ron; and Ahknoukh, Amin. “**A Green Approach to Site Preparation**”. *Second International Conference on Construction In Developing Countries (ICCIDC–II)*, “*Advancing and Integrating Construction Education, Research & Practice*”. Cairo, Egypt. August 3-5, 2010.

#### **Xie, H. Published**

- Xie, H., Shi, W., and Issa, R. R. (2010) *INTEGRATION OF BIM AND RFID IN STEEL CONSTRUCTION: A Framework of Building Information Modeling Using at Steel Fabrication and Erection*, LAP LAMBERT Academic Publishing (November 2, 2010) ISBN-10: 3843363560, ISBN-13: 978-3843363563
- Shi, W., Xie, H., and Issa, R.R. “Framework for integration of bim and rfid in steel construction”, Spring 2010 Page 29-30, *Journal of Building Information Modeling (JBIM)*.
- Xie, H. “Using RFID and Real-Time Virtual Reality Simulation for Optimization in Steel Construction”, ASC/TEXO Conference, Dallas, TX, October 7-8, 2010
- Xie, H., Akhnoukh, A.K., and Shi, W. “Implementing Sustainability Concepts in Building Information Modeling Course”, 2nd International Conference on Construction In Developing Countries (ICCIDC-II) “*Advancing and Integrating Construction Education, Research and Practice*”, August 3-5, 2010, Cairo, Egypt.
- Xie, H., Shi, W., Issa, R., and Carr, J. “Ultrasonic sensor + 4D virtual reality simulation environment for safety training”, *The International Conference on Computing in Civil and Building Engineering 2010 (ICCCBE 2010)* and *The XVII-ICE Workshop on Intelligent Computing in Engineering 2010 (EG-ICE10)*, The University of Nottigham, June 30-July 2, 2010
- Xie, H., Akhnoukh, A.K., and Shi, W. “Post-Construction Use of Building Information Models for the Mechanical, Electrical, and Plumbing Systems in

- Medical Projects”, 6th International Engineering and Construction Conference, American Society of Civil Engineers, June 28-30, 2010, Cairo, Egypt
- Akhnoukh, A.K. and Xie, H. “Welded Wire Reinforcement versus Random Steel Fibers in Precast/Prestressed Ultra-High Performance Concrete I-Girders”, *Construction and Building Materials*, Volume 24, Issue 11, November 2010, Pages 2200-2207

**Akhnoukh, A., Articles accepted for publication**

- Meadati, P., **Akhnoukh, A.**, “BIM and Concrete Formwork Repository” *Associated Schoole of Construction National Conference*, Omaha, NE, April, 2011

**Tramel, J., Articles accepted for publication**

- Xie, H., Shi, W., and Tramel, J.M., “Life Cycle of Building Information Models for the Mechanical, Electrical, and Plumbing Systems in Construction Projects”, submitted to 2011 IEEE International Conference on Computer Science and Automation Engineering (CSAE 2011), Shanghai, China, June 10-12, 2011

**Xie, H. Pending**

- Xie, H., Shi, W., and Tramel, J.M., “Life Cycle of Building Information Models for the Mechanical, Electrical, and Plumbing Systems in Construction Projects”, submitted to 2011 IEEE International Conference on Computer Science and Automation Engineering (CSAE 2011), Shanghai, China, June 10-12, 2011

**Formal presentations at professional meeting**

**Akhnoukh, A.,**

- Dr. Akhnoukh participated in a full day seminar held at the Arkansas State University and titles “The New Madrid Seismic Zone: What We Know and How to Prepare”, Jonesboro, AR., Feb 2010
- The Effect of Confinement on Transfer and Development Length of 0.7 inch Prestressing Strands, presented at the Concrete Bridge Conference, Phoenix, AZ, Feb. 2010
- Concrete Research Lab in the University of Arkansas at Little Rock, presented in the Faculty Exchange Program with the University of Graz, Graz, Austria, May 2010
- Bond Behavior of 0.7 in. Strands in Pretention Application, presented at the Second International Conference of Construction in Developing Countries, Cairo, Egypt, Aug 2010
- Ultra-High Performance Concrete Applications in the United States of America, presented at the Associated Schools of Construction, Dallas, TX, Oct. 2010
- Dr Akhnoukh authored technical articles for the ACI Arkansas Chapter News Letter.

- Dr. Akhnoukh participated in different technical sessions and events on a national and international level, including:
  - a- Portland Cement Association Seminar titled “AASHTO LRFD Specifications for Concrete Bridge Design”, Skokie, Illinois, Sep. 2010
  - b- American Concrete Institute Fall Convention titled “Green Concrete in the Steel City”, Pittsburgh, PA, Oct. 2010
  - c- American Concrete Institute National Seminar titled “Anchorage to Concrete”, Little Rock, Arkansas, Nov. 2010
- -For the second year, Dr. Akhnoukh served as an elected board member in the American Concrete Institute, Arkansas Chapter. His role includes the participation in seminars, scientific meetings, Social events, and publishing and reviewing ACI brochures for industry professionals in the State of Arkansas.

#### **Carr, J.,**

- Presented “**Making Your Home Energy Efficient**” at the Home Show of the Little Rock Home Builders Association. February 9.

#### **Xie, H.,**

- Contacted Department of Management, Xi'an University of Architecture and Technology (XUAUT), China, for research and teaching corporation opportunities. Dr. Xie started the exchange program between UALR and XUAUT in 2010. In spring 2011 semester, the first group of 6 Chinese students came to UALR and started their study. These students will attend the International Competition of Design/Build of Associated Schools of Construction in Region V.
- Building Information Modeling presentation to American Society of Professional Estimators (ASPE) on August 20, 2010
- Building Information Modeling presentation to Advising Board of the Construction Management Department of UALR on May 3, 2010
- Present research topic to ASC Region V conference at Dallas, TX, October 7, 2010

### **Other Scholarly Activities**

#### **Akhnoukh, A.,**

Guided independent study students supervised.

<u>Student Name</u>	<u>Project Title</u>
• Brandon Byars	Development of Light Weight Concrete Mixes
• Chris Baxter	Development of Light Weight Concrete Mixes
• Allen Harris	Effect of Curing Temperature on Concrete Properties
• Roshita Jordan	Properties of Light Weight Green Concrete Mixes

- Christie Freemon                      Detecting Rebars in Concrete using NDT Testing
- Randy Murray                         Development of High Strength Green Concrete

**Carr, J.**

- Independent Study, Jessica E. Jeffries, The EIT Building LEED Education Credit
- Assessment of Construction Management Alumni and Employers.
- Associated Schools of Construction, Session Moderator at annual meeting
- Reviewer for ASC

**Jovanovic, N.,**

- Acted as an Observer during an accreditation visit to Cleveland State University, Department of Civil Engineering, October 2010
- Attended the ABET Annual Meeting, Baltimore, MD, October 28-30, 2010
- Independent study with Omar Berumen, Donaghey Scholars senior project: cluster computing--ongoing
- Conducted research on existing construction engineering programs:
  - American University of Cairo
  - Iowa State University
  - North Carolina State University
  - North Dakota State University
  - Purdue University
  - University of Central Florida
  - University of Nebraska Lincoln
  - University of New Mexico
  - Western Michigan University
- Contacted 11 organizations to get support for a construction engineering program:
  - Batson Bravo Engineers: Charles Batson, Rick Geraci, and Mark Eakin
  - Lewis Architects Engineers: Randy Ragsdale
  - Garver USA: John Watkins
  - Riddick Engineering Corporation: Edgar Riddick, Chris Teas, Jack Rule, George Carroll, and Steve Sharp
  - TME, Inc.: Ed Tinsley, Rusty Mullen, Hamid Habibi, Steven Ward, and Mike Harkey
  - Engineering Consultants, Inc.: James Brown, Richard Brown, Frank Allison, and Grant Jordan
  - Cromwell Architects Engineers: Joe Hilliard
  - Airetech Corporation: John Oliver and Chris Shaw
  - McClelland Consulting Engineers, Inc.: Dan Beranek
  - AR Board of Licensure for PE and LS: Steve Haralson and James Atchley
  - W. H. Grant & Associates: Bill Grant

**Ray, C.**

- Ray, Christopher S. Commercial Construction Estimating: Fundamentals and Strategy. Commissioned publication in process for Red Barn Publishing. Anticipated date of release 4<sup>th</sup> quarter 2011

**Tramel, J.,**

- This year the Director of ACEF, Steve Schaeffer, and Mike Tramel met with our OSHA Area Director, Carlos Reynolds, to discuss training requirements for scaffold training. Since I am one of the few people in Arkansas certified in the design, erection, and use of rigid and hanging scaffolds we wanted to see how our area interprets the subpart. We plan to start having competent person certification training classes for the local contractors first and then for the rest of Arkansas later. I will incorporate the competent person certification into my safety class during the Spring 2011 semester so that student will leave the class with two certifications. There is a major shortage of scaffold competent persons in Arkansas and this is one of the highest penalized parts of the standard for construction.
- Work with MBA graduate student with an independent study to survey the membership of ABC to identify training needs that their companies and personnel need. We identified six primary needs and five secondary needs but development has been delayed until the economy recovers.
- Last year met with Senator Branch Lincoln's Little Rock office staff manager on issues dealing with union organization and activities. Since Mike Tramel has been a building-trades union member since 1973 and served in the union organizations his advice was sought out.
- Conducted a needs survey assessment for ACEF with their Director. Interviewed eight specialty contractors to determine their training needs.
- Working on a joint effort with the U.S. Army Corps of Engineers in developing a series of training sessions for public sector construction for ACEF and ABC. A recent contractor survey has identified nine topics that contractors want instruction in. This is going to be the primary training goal for ACEF and ABC in 2011 since government funding is available for public sector projects.

**Woodard, J.,**

- Independent Study Mark Gernhart, Design and Cost Estimate for a concrete, two story structure with shear heads
- Independent Study, Daryl Wafford, Feasibility Study of Expanded Shale as a retaining wall backfill material

**Xie, H.,**

- Worked on the proposal for the new Master of Science in Construction Management program. The proposal is submitted to the Construction Management Department for discussion. It will be sent to the Graduate Committee of the college and the Graduate Council of the university soon.