

# Keith L. Coogler

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## EDUCATION

Edd, Higher Education, Curriculum & Instruction, Texas A&M University-Commerce, 2013  
MA, Industrial Education, Sam Houston State University, 2002  
BS, Industrial Technology – Design & Development, Sam Houston State University, 1978

## EMPLOYMENT HISTORY

Lecturer 2002 – Present  
Department of Engineering Technology  
Trinity River Authority of Texas  
Construction Division – 1978-1981  
Southern Region Support Services – 1981-2000

## COURSES TAUGHT

ETCM 1363 – Wood Frame Construction  
ETCM 3368 – Concrete & Masonry Construction  
ETCM 3370 – Construction Technology II  
ETCM 4368 – Building Materials  
ETCM 4370 – Construction Plans & Documents  
ETCM 4369 – Special Topics in Engineering Technology

## PROFESSIONAL ORGANIZATIONS & AFFILIATIONS

American Society of Engineering Education – Member  
American Builders and Contractors (ABC) – SHSU Chapter advisor  
National Association of Home Builders (NAHB) – SHSU Chapter advisor  
Associated General Contractors (AGC) – SHSU Chapter advisor  
Sam Houston Construction Association (SHCA) – SHSU Chapter advisor  
The Association of Technology, Management, and Applied Engineering (ATMAE) – SHSU Chapter  
Architectural Woodwork Institute (AWI) – Affiliate member

## RESEARCH INTERESTS

Construction, Alternative Energies, Automation-Measurement, and Control

## DISSERTATION

**Coogler, K. L.** (2013). Effects of personality and learning style on college level reading. (UMI No. 3606406).

## PEER-REVIEWED PUBLICATIONS

Yildiz, F. and **Coogler, K.**, “*An Interdepartmental Experimental Engineering Projects Course Development*”, Proceedings of 2017 American Society for Engineering Education (ASEE) 124th Annual Conference & Exposition, Columbus, Ohio.

Yildiz, F. and **Coogler, K.**, “*Design and Development of Mobile Geothermal Laboratory Equipment*”. Technology Interface International Journal (TII); Spring/Summer 2017, Vol. 17, No. 2, p5-12.

Yildiz, Faruk and **Coogler, Keith L.**, “*Low Power Energy Harvesting with a Thermoelectric Generator Through an Air Conditioning Condenser*”. Journal of Energy Technology; Spring 2017, Vol.34, Issue 1, p8-16.

Yildiz, F., Suh, M., **Coogler, K.**, Dakeev, U., and Baltaci, K., “*Design and Development of a Grid-Tied Solar Photovoltaic Training Infrastructure*”, Proceedings of 2016 American Society for Engineering Education (ASEE) 123rd Annual Conference & Exposition, New Orleans, Louisiana.

Yildiz, Faruk, **Coogler, Keith L.**, and Amador, Ruben, “*Conversion of a Gasoline Powered Boat to a Hybrid Electric Boat*”. Journal of Energy Technology; Spring 2015, Vol.32, Issue 1, p52-63.

Yildiz, F., Dakeev,U., Baltaci,K., and **Coogler, K.** , “*Energy Harvesting from Air Conditioning Condensers with the Use of Piezoelectric Devices*”, Proceedings of 2015 American Society for Engineering Education (ASEE) 122nd Annual Conference & Exposition, Seattle, Washington.

Yildiz, F., **Coogler, K.** , “*Design and Implementation of a 1kw Photovoltaic System as a Training Infrastructure*”, Proceedings of 2014 American Society for Engineering Education (ASEE) 121st Annual Conference & Exposition, Indianapolis, Indiana.

Yildiz, F., **Coogler, K.** , “*Low-power Energy Harvesting with a Thermoelectric Generator Through an Air Conditioning Condenser*”, Proceedings of 2014 American Society for Engineering Education (ASEE) 121st Annual Conference & Exposition, Indianapolis, Indiana.

Dr. Faruk Yildiz, Dr. Reg Recayi Pecan, and **Keith L. Coogler**, “*An Industry Related Project-Based Microcontroller Course*”, Proceedings of 2013 American Society for Engineering Education (ASEE) 120th Annual Conference & Exposition in Atlanta, Georgia

Dr. Faruk Yildiz, **Keith L. Coogler**, and Dr. Bill Crockford, “*An Applied Comparison Study: Solar Energy vs. Thermoelectric Energy*”, Proceedings of 2013 American Society for Engineering Education (ASEE) 120th Annual Conference & Exposition in Atlanta, Georgia

Yildiz, F., **Coogler, K.**, and Crockford, W., “*Energy Harvesting from an Air Conditioning Condenser Exhaust*”, Proceedings of 2012 The Association of Technology, Management, and Applied Engineering (ATMAE) Annual Conference: Strengthening Our Connections, November 14-17, 2012. Nashville, Tennessee

Yildiz, F., **Coogler, K.**, “*Energy Efficient LED Lighting Powered By Hybrid Wind and Solar Power*”, Proceedings of 2012 The Association of Technology, Management, and Applied Engineering (ATMAE) Annual Conference: Strengthening Our Connections, November 14-17, 2012. Nashville, Tennessee

Dr. Faruk Yildiz, **Keith L. Coogler** and Dr. Reg Recayi Pecen , “*An Overview: Applied Interdisciplinary Renewable Energy Projects*”, Proceedings of 2012 American Society for Engineering Education (ASEE) 119th Annual Conference & Exposition in San Antonio, Texas

Dr. Faruk Yildiz, **Keith L. Coogler** , “*Indoor Security Lighting with Solar Powered LED Technology*”, Proceedings of 2012 American Society for Engineering Education (ASEE) 119th Annual Conference & Exposition in San Antonio, Texas

Yildiz, F., **Coogler, K.L.**, and Muns, N.C., “*Two Successful Projects: Solar Air and Solar Water Heating Training Units*”, Proceedings of 2011 The Association of Technology, Management, and Applied Engineering (ATMAE) Annual Conference: ReThinking the Future, November 9-12 2011, Cleveland, OH.

Yildiz, F., **Coogler, K.**, and Zora, A., “*An Undergraduate Research Project: The Design and Development of an Environment Friendly Hybrid Boat*”, Proceedings of 2011 American Society for Engineering Education (ASEE) Annual Conference, Energy Conversion Conservation Division (EECT), June 2011, Vancouver, BC, Canada.

Yildiz, F., Muns, N.C., and **Coogler, K.L.**, “*A General Alternative Energy Course Development for a Technology Program*”, Proceedings of 2011 IAJC-ASEE International Joint Annual Conference on Engineering and Related Technology, April 2011, Hartford, CT.

Yildiz, F., Kingman, D., and **Coogler, K.**, Karayaka, H.B., “*Recruitment of K-12 Students to Engineering Technology Programs through Applied Alternative Energy Education Workshops*”, Proceedings of 2011 ASEE Gulf Southwest Annual Conference: Innovating Engineering and Engineering Technology Education, ASEE Gulf-Southwest Section, March 2011, Houston, TX.

Yildiz, F., Fazarro, D., and **Coogler, K.**, “*The Green Approach: Self-Powered House Design Concept for Undergraduate Research*”, *Journal of Industrial Technology (JIT)*. Vol. 26 No.2. April 2010 through June 2010.

Yildiz, F., **Coogler, K.**, “*Development of a Renewable Energy Course for a Technology Program*”, Proceedings of 2010 American Society of Engineering Education (ASEE), Energy Conversion Conservation Division (EECT), June 2010, Louisville, Kentucky.

Yildiz, F., **Coogler, K.**, “*Students Built Educational Renewable Energy Training Units*”, Proceedings of 2010 American Society of Engineering Education (ASEE), Energy Conversion Conservation Division (EECT), June 2010, Louisville, Kentucky.

Yildiz, F., **Coogler, K.**, and Fazarro, D., “*Self Sufficient Energy Efficient House Design*”, Proceedings of 2009 American Society of Engineering Education (ASEE), Energy Conversion Conservation Division (EECT), June 2009, Austin, TX. AC 2009-1073

## **PEER-REVIEW PRESENTATIONS/POSTERS**

An Undergraduate Research Project: The Design and Development of an Environment Friendly Hybrid Boat, 2011 American Society for Engineering Education (ASEE) Annual Conference, Energy Conversion Conservation Division (EECT), June 2011, Vancouver, BC, Canada.

## **WORK OR PROFESSIONAL EXPERIENCES**

### **2017**

- Facilitator – Fall 2017 Engineering Technology Career Fair
- Construction of Supreme Court Bench – SHSU-LEAP Center

### **2016**

- Facilitator – Fall 2016 Engineering Technology Career Fair
- Advisor & Trainer – American Builders and Contractors (ABC) National Construction Estimating Competition - 2016. Dallas, Texas
- 2016 BEST Robotics Competition – Field Constructor & Judge

### **2015**

- Facilitator – Fall 2015 Engineering Technology Career Fair
- Advisor & Trainer – American Builders and Contractors (ABC) National Construction Estimating Competition - 2015. San Diego, California
- 2015 BEST Robotics Competition – Field Constructor & Judge

### **2014**

- Facilitator – Fall 2014 Industrial Technology Career Fair
- 2014 BEST Robotics Competition – Field Constructor
- Committee – Spring 2014 Agricultural Sciences and Industrial Technology Career Fair

### **2013**

- Facilitator – Fall 2013 Industrial Technology Career Fair
- Advisor & Trainer – American Builders and Contractors (ABC) National Construction Estimating Competition - 2013. Birmingham, Alabama
- 2013 BEST Robotics Competition – Field Constructor & Judge
- Committee – Spring 2013 Agricultural Sciences and Industrial Technology Career Fair

### **2012**

- 2012 BEST Robotics Competition – Field Constructor & Judge
- Facilitator – Fall 2012 Industrial Technology Career Fair
- Advisor & Trainer – American Builders and Contractors (ABC) National Construction Estimating Competition - 2012. San Antonio, Texas
- Advisor & Trainer – American Builders and Contractors (ABC), Houston Area Chapter, Construction Estimating Competition - 2012. Houston, Texas
- Facilitator – Spring 2012 Industrial Technology Career Fair

### **2011**

- Facilitator – Fall 2011 Industrial Technology Career Fair
- 2011 BEST Robotics Competition – Field Constructor & Judge
- Advisor & Trainer – American Builders and Contractors (ABC) National Construction Estimating Competition - 2011. San Antonio, Texas
- Advisor & Trainer – American Builders and Contractors (ABC), Houston Area Chapter, Construction Estimating Competition - 2011. Houston, Texas
- Facilitator – Spring 2011 Industrial Technology Career Fair

**2010 & before**

- Facilitator – Fall 2010 Industrial Technology Career Fair
- Facilitator – Spring 2010 Industrial Technology Career Fair
- Facilitator – Fall 2009 Industrial Technology Career Fair
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- Facilitator – Fall 2005 Industrial Technology Career Fair
- Facilitator – Spring 2005 Industrial Technology Career Fair