

ANN D. KAISER

akaiser@projectengin.com

(401)578-8281

EXPERIENCE

ProjectEngin LLC **2014- Present**
CEO

STEM Education Consultant

Project, program, and curriculum design to facilitate the inclusion of Engineering In STEM courses. Custom designed coaching and workshops meant to create lasting change and advocacy in STEM faculty. Projects can also be designed to Incorporate arts and cultural awareness.

Fulbright Distinguished Teacher **2012-2013**

Researched the use of Engineering Design projects in secondary schools in Singapore. Developed co-teaching professional development model to facilitate pedagogical change. Created first draft of a guide for science teachers implementing Engineering Design projects.

LaSalle Academy **Providence RI** **1999-2014**

AP Physics Teacher and Engineering Teacher

Previous courses include Algebra 1 and Algebra 2. Developed and implemented curriculum for AP Physics B and C. Developed and implemented curriculum for a project-based introductory Engineering course.

Brown University **Providence RI** **1990**

Research Assistant **Department of Material Science**

Conducted research on niobium/aluminum super alloys. Focus on material structure and resulting mechanical and thermal properties.

Thielsch Engineering Associates **Cranston RI** **1989**

Consulting Engineer

Projects involved failure analysis, performance improvements, and material specification.

Precision Metallurgical Corporation **Attleboro MA** **1984-1987**

Manager New Product Engineering (1985-1987)

Product Specialist (1984-1985)

Coordinated new product development, focusing on precious metal products for electrical, electronic and medical applications. Provided technical liaison between customers' engineering and design and PMC marketing.

Pfizer Inc. Specialty Metals Division Wallingford CT 1982-1983
Metallurgical Sales Engineer

Airco Industrial Gases Murray Hill NJ 1980-1982
Metallurgical Engineer

INTERNSHIPS
1977-1980

Rockefeller Foundation New York, NY
CF & I Steel Corporation Pueblo, CO
Dr. D. N. Beshers Columbia University
Ford Motor Company Dearborn, MI

EDUCATION

Columbia University New York, NY
School of International and Public Affairs
Master of International Affairs (MIA) May 1980
Specialization in World Resources and Technology Transfer
International Fellow 1979-1980

Columbia University New York, NY
School of Engineering and Applied Science
B.S. Metallurgy May 1979
Various academic honors

Brown University Providence, RI
Department of Material Science
Graduate course work **1990**

AWARDS, PUBLICATIONS, AND PRESENTATIONS

Awards

Keynote Speaker, Danish National Science Education Conference, Roskilde, Denmark, March 2015

Member, Fulbright Review Panel, Institute of International Education, Washington, DC, February 2015

Reviewer, Frontiers in Education Conference, ASEE, 2015

Nominee, Fulbright Alumni of the Month, Institute for International Education, November 2014

Top Overseas Teacher award, Invited Presenter, Teachers Conference 2014, Singapore, June, 2014

Reviewer, Fulbright Distinguished Teacher Awards, January 2014

Fulbright Distinguished Teacher Award, Singapore, 2012-2013

International Fellow, Columbia University School of International and Public Affairs, 1979-80

Life member, Tau Beta Pi (International engineering honor society)

Publications/Presentations

“Engage Your Inner Engineer - The Evolution from Science to Engineering in the STEM Classroom” STEM Think Tank, Nashville, TN July 2015

“Building a Better World: Engineering Disaster-Proof Housing” ASEE K-12 Workshop, Seattle, WA, June 2015

“Engineering Innovative STEM Curriculum” Danish National Science Education Conference, Roskilde, Denmark, March 2015

“Engineering: The NGSS and Beyond” Rhode Island Science Teachers Association, March 2015

“From Micro to Macro: How Microstructure Affects Macroscopic Material Properties” National Educators Workshop, Seattle, November 2014 (publication pending October 2015)

“A Modular Approach to Using the Engineering Design Process in Secondary Science Curriculum; Experiences in Singapore and the United States” (peer reviewed publication) Frontiers in Education (FIE) Conference, Madrid, October 2014

“How to ReEngineer High School Science” revision 1 (Work in progress)

“The Use of Engineering Projects to Include Ethics, Values and Global Citizenship Issues in Science Curriculum” Teachers Conference 2014, Singapore, June 2014

“Using Engineering Design Projects in Physics Courses” National Science Teachers Association Conference Boston, MA, April 2014

“Engineering Design Projects in Science Courses; Experiences in Singapore and the United States” Rhode Island Science Teachers Association Co, Providence, RI, February 2014

“Engineering a Better World” LaSallian Huether Conference, New Orleans, LA, November 2013

Fulbright Alumni Panelist, Washington DC, August 2013

“Redesigning Teaching Science” School of Science and Technology, Singapore, July 2013

“Introducing Engineering Design Projects in Physics Class” Fulbright Session, Academy of Singapore Teachers, Singapore, May 2013

“Re-Engineering Physics” Academy of Singapore Teachers, Singapore, March 2013

“Incorporating “Engineering” Thinking into Traditional Math and Science Curriculum” ITEEA Conference, Long Beach, CA, March 2012

“Encouraging Creativity in Engineering” International Technology and Engineering Education Association (ITEEA) Conference, Minneapolis, MN, March 2011

“Developing an Introductory Engineering Course a for LaSallian High Schools” LaSallian Huether Conference, Cincinnati, OH November 2010

MEMBERSHIPS

National Science Teachers Association (NSTA)
Rhode Island Science Teachers Association (RISTA)
International Technology and Engineering Education Association (ITEEA)
American Society for Engineering Education (ASEE)
Association for Supervision and Curriculum Development (ASCD)
American Association for the Advancement of Science (AAAS)
International Exchange Alumni/Fulbright Alumni
Board Member, Rhode Island Museum of Science and Art (RIMOSA)