

**Name:** Craig I. Ricketts, Dr.-Ing.

**Education:**

Dr.-Ing. Mechanical Process Engineering, Universität Karlsruhe <sup>†</sup>, 1992

MS Mechanical Engineering, New Mexico State University, 1981

BS Mechanical Engineering, New Mexico State University, 1974

<sup>†</sup> now Karlsruhe Institute of Technology

**Academic Experience:**

2004 – present Associate Professor, Engineering Technology and Surveying Engineering  
Coordinator of the mechanical option program, 2006- present

1998 – 2004 Assistant Professor, Department of Engineering Technology and Surveying  
Engineering, New Mexico State University

1992 – 1998 College Assistant Professor, Department of Mechanical Engineering,  
New Mexico State University

**Non-academic Experience:**

1990 – 1992 Technical Consultant in Nuclear Safety, Karlsruhe, Germany

1985 – 1990 Staff Member, Karlsruhe Nuclear Research Centre, Karlsruhe, Germany

1982 – 1985 Guest Scientist, Karlsruhe Nuclear Research Centre, Karlsruhe, Germany

1976 – 1982 Research Associate, Mechanical Engineering Department,  
New Mexico State University

1974 – 1976 Mechanical/Electronic-Packaging Engineer, Garwood Dev. Lab., Las Cruces, NM

**Certifications / Professional Registrations:** EIT Exam - State of New Mexico, 1975

**Membership in Professional Organizations:**

International Society of Nuclear Air Treatment Technologies

American Society of Mechanical Engineers (ASME) Sigma Xi

ASME Standards Committee on Nuclear Air and Gas Treatment (CONAGT)

Subcommittee on Filtration of ASME CONAGT

American Society for Engineering Education Tau Alpha Pi Tau Beta Pi

**Honors & Awards:**

ASME *Certificate of Acclamation*, Standards Committee of ASME CONAGT, 2010

ASME *Certificate of Appreciation*, Standards Committee of ASME CONAGT, 2009

Professor of the Year Award in Engineering Technology Dept., NMSU, 2005

Bromilow Award for Teaching, New Mexico State University (NMSU), 1998

Roush Award for Teaching, NMSU, 1996

Award for Most Valuable Professor in Mechanical Engineering Dept., NMSU, 1994, 1995

German Patent No. 36 22 629, 1989 (with V. Rüdinger et al.)

Award for Best Paper at Nuclear Technology Conference, Karlsruhe, Germany, 1987  
(with V. Rüdinger and J. G. Wilhelm)

**Service Activities:**

ASME Standards Committee on Nuclear Air and Gas Treatment (*CONAGT*), 2007 – present  
Subcommittee on Filtration of ASME *CONAGT*, 1990 – present  
Project Technical Manager for creation of AG-1 Code Section FM, 2006 – present  
Project Technical Manager for major revisions of AG-1 Code Sections FA and FG, 2005 – 2009  
Project Team Member for routine revisions of AG-1 Code Sections FC and FK, 2005/08 – present  
ETSE Tenure and Promotion Committee for Junior Faculty, Chair, 2008 – present

**Publications:**

*Realization of Performance Specifications for the Qualification of High-Strength HEPA Filters;*  
in Proceedings of 31<sup>st</sup> Nuclear Air Cleaning Conference, Charlotte, NC, 19-21 July 2010.

*Realization of a Prototype Full-Scale Test Rig for the Qualification of High-Strength HEPA Filters;*  
in Proceedings of 31<sup>st</sup> Nuclear Air Cleaning Conference (NACC), Charlotte, NC, 19-21 July 2010.

*Toward Realization of Filter Performance Specifications for the Qualification of Higher-Strength HEPA Filter Units;* in Proceedings of 30<sup>th</sup> NACC, Seattle/Bellevue, WA, 25-27 August 2008.

*Improving Air-Cooled Condenser Perf. in CC Power Plants;* V. Gadhamshetty, N. Nirmalakhandan, M. Myint, and C. Ricketts; **Journal of Energy Engineering**, August 2006, v.132, no.2, p. 81-88.

*Gaining Retention & Achievement for Students Program (GRASP): A Faculty Development Program,* J. McShannon, P. Hynes, N. Nirmalakhandan, G. Venkataramana, C. Ricketts, A. Ulery, and R. Steiner; **Journal of Professional Issues in Engineering Education & Practice**, July 2006, v.132, no.3, p. 204-208.

*Specifications and a Prototype Test Apparatus for Qualification of High-Strength HEPA Filter Designs,*  
in Proceedings of 29<sup>th</sup> NACC, Cincinnati, OH, 17-19 July, 2006.

*The Evolution of a Capstone Design Course to Include Outcomes Assessment,* in Proceedings of the 2006 ASEE Gulf Southwest Section Conference, Baton Rouge, LA, 15 - 17 March, 2006.

**Professional Development:**

AG-1 Code development meetings, twice annually, (12) 2005 – present.  
Nuclear Air Cleaning Conferences, one every two years, (3) 2005 – present.  
NMSU Food Industry Working Group meetings, once annually, (5) 2006 – present.  
One-half-semester, 3-credit/2 course with lab in *Solar Thermal Energy* (ET 482), 2008 – 2009.  
One-half-semester, 3-credit/2 course in *Water Energy Technologies* (ET 484), 2008 – 2009.  
3-credit course with lab in *Mechanical Measurements* (ET 422), 2007 – 2008.  
Mentored 2 senior project teams for 2 renewal energy clients over 2 semesters, 2010 – present.  
Mentored 12 senior project teams for 3 food processors as clients, 6 semesters, 2006 – 2009.  
Attendance of NMSU faculty professional development workshops (5).  
Attendance of ASEE national (1) and regional (1) conferences.  
Attendance of organic farming conference (1).  
Review of textbook chapters (10) for publishers (3).

**Number of Years in Service to Department:** 13 years

**Date Hired:** 15 August 1998