



Dr. Wei-Ning Wang
(汪伟宁)

Assistant Professor
Department of
Mechanical and Nuclear
Engineering
Virginia Commonwealth
University
Phone: 1-804-827-4306
Email: wnwang@vcu.edu

1. *My career path?*

I received my BS and MS degrees in Polymer Science and Engineering from Nanjing University of Technology (now Nanjing Tech University) in 1999 and 2002, respectively. My MS thesis was "Investigation of Inorganic Electrolyte Solutions by using Nanofiltration Membranes". Then I went to Hiroshima University in Japan and joined Prof. Kikuo Okuyama's group as a PhD student. My PhD thesis was "Synthesis of Nanoparticles via Spray Route under Low Pressure Conditions". After receiving my PhD in 2006, I spent several years at Hiroshima University as a JSPS postdoctoral researcher and Research Associate. In 2009, I went to Washington University in St. Louis as a postdoctoral research associate in Dr. Pratim Biswas' lab and became Research Assistant Professor since 2013. In 2014, I joined Virginia Commonwealth University as an Assistant Professor in the Department of Mechanical and Nuclear Engineering.

2. *Current research areas, interests, and projects?*

My research is in the area of Aerosol (Particle) Technology related to fine/ultrafine particle synthesis and characterization, starting from gas, liquid, and solid precursors via aerosol (gas phase) routes, and their applications to the development of advanced functional materials for catalytic, electronic, optical, medical, energy and environmental technologies. We aim to understand the fundamental sciences behind the particle formation in the gas phase, such as micro-scale heat and mass transfer, nucleation and crystal growth, online particle size evolution, and *in-situ* surface property change during chemical reactions. Our research has been supported by American Chemical Society Petroleum Research Fund (ACS-PRF) and VCU Presidential Research Quest Fund (PeRQ).

3. *Courses you normally teach?*

I have been teaching "Heat Transfer", a required core-course to junior/senior undergraduates. I have also been teaching "Heating, Ventilating, and Air Conditioning (HVAC)" as a technical elective for senior and graduate students.

4. *My professional activities?*

I am a member of American Association for Aerosol Research (AAAR), American Institute of Chemical Engineers (AIChE), American Chemical Society (ACS), and Association of Environmental Engineering and Science Professors (AEESP). I have been session chair, working group chair, and organizing symposiums for AAAR conferences in the past years.

5. *Major attractions and cultural environment of your area and/or community?*

Richmond is the capital of Virginia state, which is a city of rich American history. Totally 8 U.S. presidents were from Virginia, including George Washington and Thomas Jefferson. During the American Civil War, Richmond served as the capital of the confederate States of America. Richmond is close to Washington DC, Virginia Beach, and the Research Triangle Park in North Carolina.

6. *Key factors that lead to your career today?*

Curiosity and interest in science and education.

