

Wenchiang Richard Chung

(a) Professional Preparation

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|-----------------------------|------------------------|-------|------|
| Chinese Culture University | Chemical Engineering | B.S. | 1976 |
| Youngstown State University | Materials Engineering | M.S. | 1984 |
| Auburn University | Mechanical Engineering | Ph.D. | 1987 |

(b) Appointments

- 2018-now Professor and Department Chair, Department of Chemical and Materials Engineering, San Jose State University (SJSU), CA
Director of Global Technology Initiative Program, 2011-2018
Director of Summer in Silicon Valley Program, 2015-2018
Academic senator 2016-2018
Chair of Research Misconduct Inquiry and Investigation Committee 2016-201
- 2013-2018 Professor, Department of Biomedical, Chemical and Materials Engineering, SJSU, CA
- 2000-2013 Professor, Department of Chemical and Materials Engineering, SJSU, CA
- 1987-1999 Assistant Professor, Associate Professor, Professor and Department Chair (tenured 1995), Department of Aviation and Technology, SJSU, CA
- 2014 Visiting Scholar, Advanced Studies Laboratory, NASA-Ames, Moffett Field, CA
- 2004 Visiting Fellow, Physical Science Division, SRI International, Menlo Park, California
- 1994 Visiting Scholar, Department of Aeronautics and Astronautics, Stanford University, CA

(c) Products (Trainees under direct supervision are underlined)

(i) Most relevant

1. Q. Dai, Y. Chen, C.C. Liu, C.T. Rettner, B. Holmdahl, S. Gleixner, **W. R. Chung**, J.W. Pitera, J. Cheng, and A. Nelson. "Programmable Nanoparticle Ensembles via High-Throughput Directed Self-Assembly," *Langmuir* 2013, 29, 3567-3574.
2. **W.R. Chung** and K. Amo, "Characterization of the Adhesion between Nanoparticles and Polymer Matrix by Atomic Force Microscopy," *IEEE Nano* 2011, August 15-18, 2011, Portland, Oregon.
3. **W.R. Chung**, Y. Zhao, M. Oye, C. Nguyen, "Graphene Synthesis by Thermal CVD Method" *IEEE Nano* 2011, August 15-18, 2011, Portland, Oregon.
4. J. Lee, N. Okamoto, **W.R. Chung**, and T. Anagnos, "Introducing Sustainability Concepts in Lower Division Engineering Core Courses, 41st ASEE/IEEE Frontiers in Education Conference October 12 - 15, 2011, Rapid City, SD.
5. **Chung**, W.R., Larsen, F.M., and Kornienko, R. "The Cam Shell: An Innovative Design with Materials and Manufacturing," Update 2002: Standard Experiments in Engineering Materials, Science and Technology, National Educators' Workshop, sponsored by NASA, SJSU, NSU, SEMI, Seagate, IBM, Untratech Stepper, October 13-16, 2002, San Jose, California, NASA/CP-2003-212403, pp. 179-188

(ii) Other significant Publication

1. T. Magbitang, V. Y. Lee, J. N. Cha, H.-L. Wang, **W. R. Chung**, R. D. Miller, G. Dubois, W. Volksen, H.-C. Kim, and J. L. Hedrick, "Oriented Nanoporous Lamellar Organosilicates Templated from Topologically Unsymmetrical Dendritic-Linear Block Copolymers," *Angew. Chem. Int. Ed.*, 44, 1-7, 2005.

(d) Synergistic Activities

1. Collaborated with HP Labs and developed computational software, titled “Product Life Cycle Analysis.” The software is currently used in lower division engineering courses to help college students analyze a product life cycle during product design. The software was disseminated to 6 local community colleges and used in their green energy and sustainability classes.
2. Editor, Chapter 8 (Thermoforming), Vol.8, Plastic Part Manufacturing, Tool and Manufacturing Handbook, published by Society of Manufacturing Engineers, 4th Edition, 1996, 8-1 to 8-24
3. President, vice-president, secretary for the Silicon Valley Engineering Council (<http://www.globalimpactvideo.com/svec/home.html>, 1990-2005)
4. Executive committee member, treasurer, chair of yearbook committee, chair of education committee, American Society for Materials International -- Santa Clara Valley Chapter (<http://santaclara.asminternational.org/portal/site/santaclara/>, 1987- 2017)
5. Advisory board member, steering committee member for IEEE San Francisco Bay Area Nanotechnology Council. (http://ewh.ieee.org/r6/san_francisco/nntc/index.php?mode=content&id=8, 2005 – 2014)
6. Board director, education committee chair, Society of Plastics Engineers –Golden Gate Section (www.spe-ggs.org, 1987- present)

(e). Collaborators and Other Affiliations

(i) Collaborators

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|---|---|
| Thalia Anagnos - San Jose State University | Yigal Blum- SRI International |
| Meyya Meyyappan- NASA Ames Research Ctr. | Qiu Dai – IBM-Almaden Research Center |
| Stacy Gleixner – San Jose State University | Ho-Cheol Kim - IBM-Almaden Research Center |
| Jin Li - NASA Ames Research Center | Juneseok Lee - San Jose State University |
| Chi-Chun Liu - IBM-Almaden Research Center | Robert Miller - IBM-Almaden Research Center |
| Alshakim Nelson - IBM-Almaden Research Center | Nicole Okamoto - San Jose State University |
| Michael Oye – NASA Ames Research Center | Jed W. Pitera - IBM-Almaden Research Center |
| Charles T. Rettner- IBM-Almaden Research Center | Melanie McNeil- San Jose State University |

(ii) Graduate Advisors and Postgraduate Advisors

Bor Z. Jang, Wright State University Bryan A. Chin, Auburn University

(iii) Thesis Advisor and Postgraduate-Scholar Sponsor

Karl Amo (Membrane Technology Research), John Anzaldo (Testing Engineers, Inc.), Onur Bakirman (Intel), Kavitha Bharadwaj (TE Connectivity), Kailian Du (current affiliation unknown), Yujia Dong (Hong Kong Science &Technology University), Charles Whipple (Lockheed Martin), Ehson Ghandehari (UC-Davis), Jose Gomez (Varian), Fei Gu (UC-Riverside), Bryan Holmdahl (Amazon), Cristina Javier (Applied Materials), Srinivas Reddy Kamireddy (South Dakota State University), David Kao (Space X), Behzad Khosrowmoabed (APsessco Medical), Moslem Hossein Mardi (APsessco Medical), Dennis Mo (Boston Scientific), Jeanine Olson (TE Connectivity), Puja Patel (Erin Engineering), Eslam Rezeik (Advantech), Bhavana Shekhar (Intuitive Surgical), Shirin Rahmanian (current affiliation unknown), Salma Riazi (current affiliation unknown), Jessica Rosental (APSU Technologies), Linda Leong (current affiliation unknown), Hala Shaba (Invensas Corporation), Steven Selverston (Case Western University), I-Ta Tsai (current affiliation unknown), Phong Vu (IBM), Yunfan Zhao (current affiliation unknown), Zachary Rayha Western Digital), Warren Jolley (KLA-Tencor), Steven Diaz (BAE Systems), Christian Nunez (Schmid Thermal Systems), Alicia Andrews (E-Ink Corp.), Geeta Sethi (Labcyte Inc.), Hong Diep Vo (IBM), Elliott Baker (Carbon), Duniexky Castaneda (Shellpro Inc.)

Total Number of Graduate Students Supervised: 0 Ph.D. 38 M.S.