

## YUNTIAN T. ZHU

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(updated on Feb. 8, 2017)

**Citizenship:** U.S.

### Education:

1979-1983 **Hefei University of Technology, China**  
B.S. in Metallurgy

1985-1988 **Institute of Metal Research, Chinese Academy of Sciences**  
M.S. in Materials Science and Engineering

1989-1991 **Oregon Graduate Institute of Science and Technology**  
M.S. in Materials Science and Engineering

1991-1994 **The University of Texas at Austin**  
Ph.D. in Materials Science and Engineering

### Professional Experience:

1983-1985 **Assistant Engineer**, Luoyang Bearing Research Institute, Luoyang, China

1994-1997 **Director's Postdoctoral Fellow**, Los Alamos National Laboratory, Los Alamos, NM

1997-2009 **Technical Staff Member**, Los Alamos National Laboratory

2006-2007 **Team Leader**, Nanomaterials, MPA-STC, Los Alamos National Laboratory

2007-2009 **Associate Professor**, North Carolina State University

2009-2012 **Professor**, North Carolina State University

2012-present **Distinguished Professor**, North Carolina State University

2011-present **Thousand Talents Professor, Dean**, School of Materials Science and Engineering;  
**Director**, Nano Structural Materials Center, Nanjing University of Science and  
Technology, China

### Honors:

**Fellow**, ASM International (2010)

**Fellow**, American Physical Society (2011)

**Fellow**, American Association for the Advancement of Science (AAAS) (2012)

**Fellow**, The Minerals, Metals and Materials Society (TMS) (2017)

**Director's Postdoctoral Fellowship**, Los Alamos National Laboratory (1994-97)

**Achievement Award**, Los Alamos National Laboratory (1999)

**Nano50 Award**, 4-cm Long Carbon Nanotubes, by *Nanotech Briefs*, 2005.

**Best Idea Award**, Los Alamos National Lab., 2006

**Nano50 Award**, The Ultra-Strong, Stiff, and Lightweight CNT Fiber, by *Nanotech Briefs*, 2007

**TMS MPMD Distinguished Scientist/Engineer Award**, 2010

**Alumni Outstanding Research Award**, NC State University, 2010

**Thousand Talents Plan Award**, China, 2010

**TMS SMD Distinguished Scientist/Engineer Award**, 2012

**Special Contribution Award**, Nanjing University of Science and Technology, 2012

**Albert Sauveur Achievement Award**, ASM International, 2014.

**Alcoa Foundation Distinguished Engineering Research Award**, NC State University, 2014

**Highly Cited Researchers 2014, among 147 in Materials Science,** [Thomson Reuters \(ISI\)](#)

**Leadership Award,** TMS, 2015

**IUMRS Sômiya Award,** International Union of Materials Research Societies, 2015

**Highly Cited Researchers 2016,** [Thomson Reuters \(ISI\)](#)

**Fast Breaking Paper,** “Producing bulk ultrafine-grained materials by severe plastic deformation,”  
ScienceWatch, April 2006

**Fast Breaking Paper,** “Sustained growth of ultralong carbon nanotube arrays for fiber spinning,”  
April 2008

**Invited Guest Editor** on a special issue for the Journal of Materials Science on Nanomaterials  
Science, 2006

**Founding Editor-in-Chief,** Materials Research Letters, 2012-present

**Editorial Board,** Journal of Materials Science, 2006-present

**Editorial Board,** Materials Science and Engineering A, 2006-present

**Advisory Board,** Advanced Engineering Materials, 2006-present

**Editorial Board,** The Open Applied Physics Journal, 2007-present

**Editorial Board,** Letters on Materials, 2013-present

**Editorial Board,** Acta Metallurgica Sinica, 2014-present

**Editorial Board,** Reviews on Advanced Materials Science, 2017-present

#### **Committees:**

**Chair, TMS Award Subcommittee** (AIME Robert Lansing Hardy, Application to Practice, Cyril Stanley Smith, and Alexander Scott Distinguished Service) (2014)

**2013 Nanotechnology International Prize RUSNANOPRIZE Expert Group**

**Advisory Board,** Jiangsu Suzhou Nanotechnology Research Institute (2011-present)

**One of the Six Members** of the International nanoSPD Steering Committee (2002-present)

**Past Chair,** TMS MPMD Shaping and Forming Committee

**Scientific Committee,** International Conf. on Composite Eng. (2001-present)

**International Advisory Committee,** The Joint Conference of HSLA and ISUGS'05, Sanya, China  
(Nov. 8-10, 2005)

**Advisory board,** International Conference on Composite Engineering (ICCE/7, 2000)

**International Advisory board,** 1<sup>st</sup> International Conference on Nanostructured Alloys, Dushanbe,  
Tajikistan (2012)

**Scientific Committee,** 1<sup>st</sup> International Symposium on Machining and Mechanics of Advanced  
Composite Materials (ISMMC2014), Hangzhou, China, June 28-30, 2014.

**Scientific Committee,** 5<sup>th</sup> International Conference on Heat Treatment (ICHT 2015), Isfahan, Iran,  
Oct. 6-9, 2015.

**International Advisory Committee,** 36<sup>th</sup> International Symposium on Materials Science, Risø,  
Denmark, Sept. 7-11, 2015.

**Scientific Committee,** International Conf. of Nanomechanics and Nanocomposites, Vicenza, Italy,  
Sept. 14-17, 2016.

**Advisory Committee,** 4<sup>th</sup> International Conf. on Advances in Materials and Manufacturing  
(ICAMM-2016), Hyderabad, Telangana, India, Dec. 8-10, 2016.

TMS Nanomechanical Materials Behavior Committee

JT. TMS-SMD/ASM-MSCTS Mechanical Behavior of Materials Committee

#### **Society Membership:**

**Member**, Tau Beta Pi (Engineering Honor Society)  
**Member**, American Association for the Advancement of Science  
**Member**, Minerals, Metals & Materials Society (TMS)  
**Member**, Materials Research Society  
**Member**, ASM International  
**Member**, American Physics Society

## **Invited Talks:**

### **Plenary:**

1. Nano2005, Boston, MA, Nov. 10-11, 2005.
2. 1<sup>st</sup> International Symposium on Machining and Mechanics of Advanced Composite Materials (ISMMC2014), Hangzhou, China, June 28-30, 2014.

### **Keynote Presentations:**

1. **Distinguished Lectureship**, Sixth International Conference on Composite Engineering, Orlando, FL, June 27-July 3, 1999.
2. 2<sup>nd</sup> International Conference on Nanomaterials by Severe Plastic Deformation 2: Fundamentals-Processing-Applications, Vienna, Austria, Dec. 3-9, 2002.
3. NATO Advanced Research Workshop on Nanostructured Materials by High Pressure, Donetsk, Ukraine, Sept. 22-26, 2004.
4. The 3<sup>rd</sup> International Conference on Nanomaterials by Severe Plastic Deformation (NanoSPD3), Fukuoka, Japan, Sept. 22-26, 2005.
5. THERMEC'2006, Vancouver, Canada, July 4-8, 2006.
6. German Research Unit on Ultrafine Grained Materials, Kloster Irsee, Germany, Sept. 24-27, 2006.
7. Plasticity2007, Anchorage, Alaska, June 2-6, 2007.
8. International Symposium on Bulk Nanostructured Materials (BNM 2007), Ufa, Russia, Aug. 15-18, 2007.
9. International Symposium on Giant Straining Process for Advanced Materials (GSAM), Fukuoka, Japan, Nov. 21-24, 2008.
10. Role of Twinning in Plasticity, Plasticity-2009, Virgin Island, US, Jan. 3-8, 2009.
11. Austrian Network on High Performance Bulk Nanocrystalline Materials, Planneralp, Austria, March 4-6, 2009.
12. 2<sup>nd</sup> International Symposium on Bulk Nanostructured Materials (BNM-2009), Ufa, Russia, Sept. 22-26, 2009.
13. The Second Nanotechnology International Forum (Rusnanotech09), Moscow, Russia, Oct. 6-8, 2009.
14. International Symposium on Giant Straining Process for Advanced Materials (GSAM2010), Fukuoka, Japan, Nov. 19-22, 2010.
15. Mechanical Properties Related to Interface Physics, TMS Annual Meeting, Disney World, Florida, March 11-15, 2012.
16. Seventh International Symposium on Ultrafine Grained Materials, TMS Annual Meeting, Disney World, Florida, March 11-15, 2012.
17. 33<sup>rd</sup> Risø International Symposium on Materials Science: Nanometals-Status and Perspectives, Denmark, Sept. 3-7, 2012.
18. Mechanics of Crystalline Nanostructures, 2012 Annual Meeting of the Society of Engineering Science 2012, Atlanta, Georgia, Oct. 10-12, 2012.
19. The 1<sup>st</sup> International Workshop on Nanostructured Materials – Properties and Characteristics, Beijing, China, June 17-18, 2013.
20. Deformation Mechanisms in Advanced Materials Behavior and Processing: A Symposium in Honor of Amiya K. Mukherjee, Plasticity 2014, Freeport, Bahama, Jan. 3-8, 2014.
21. Symposium on Progress Towards Rational Materials Design in the Three Decades Since the Invention of the

- Embedded Atom Method, 2014 TMS Annual Meeting, San Diego, CA, USA, Feb. 16-20, 2014.
22. The 15<sup>th</sup> International Conference on Rapidly Quenched & Metastable Materials, Shanghai, China, Aug. 24-28, 2014.
  23. Materials Science & Technology 2014, Pittsburgh, PA, USA, Oct. 12-16, 2014.
  24. 8th K. Kuo Summer School of Electron Microscopy and Crystallography & The 1st International Conference on Microstructure and Property of Materials, Hangzhou, China, May 27 – 30, 2015.
  25. 3<sup>rd</sup> International Workshop on Nanostructured Materials-Properties and Characteristics, Beijing, China, June 13-14, 2015.
  26. International Workshop on Giant Straining-Process for advanced Materials 2015, Fukuoka, Japan, Sept. 3-6, 2015.
  27. Symposium on Nanomaterials, City University of Hong Kong, Nov. 21, 2015.
  28. Third Oversea Young Scholar Zijin Forum, Nanjing University of Science and Technology, Dec. 18, 2015.
  29. **Tiandi Modern Engineering Colloquium**, Nanjing University, Nanjing, China, Dec. 18, 2015.
  30. High-pressure Deformation and Nano Texture Workshop, Ningpo, China, July 5, 2016.
  31. Nano2016, Quebec City, Canada, Aug. 7-12, 2016.
  32. 4<sup>th</sup> International Workshop on Nanostructured Materials: Properties and Characteristics, Beijing, China, Oct. 9-10, 2016.
  33. The 21<sup>st</sup> Young Materials Scientist Colloquium, Beijing University of Science and Technology, China, Dec. 13, 2016.
  34. **TE Connectivity Lecture Series**, School of Sci. Eng. & Tech., Penn. State University, Jan. 26, 2017.

#### **Invited talks:**

1. Fifth U.S. National Congress on Computational Mechanics, Boulder, CO, Aug. 4-6, 1999.
2. NATO Advanced Research Workshop on Investigations and Applications of Severe Plastic Deformation, Moscow, Russia, Aug. 2-6, 1999.
3. 1999 TMS Fall meeting, Cincinnati, OH, Oct. 31-Nov. 4, 1999.
4. 1999 Society of Engineering Science, Austin, TX. Oct. 25-27, 1999.
5. 1999 International Mechanical Engineering Congress and Exposition, Nashville, TN, Nov. 14-19, 1999.
6. The 24<sup>th</sup> Cocoa Beach Conference, Cocoa Beach, FL, Jan. 23-28, 2000.
7. Invited seminar, University of California, San Diego, CA, Oct. 27, 2000.
8. Workshop on Ultrafine Grained Materials, Hanyang University, Ansan, South Korea, April 26, 2001.
9. Annual Meeting of Korea Society of Metals and Alloys, Pusan, South Korea, April 27, 2001.
10. Invited seminar, Illinois Institute of Technology, Chicago, IL, June 4, 2001.
11. Invited seminar, University of California, Irvine, CA, Oct. 12, 2001.
12. TMS Spring Meeting, 2002, Seattle, WA, Feb. 17-21, 2002.
13. Invited seminar, Florida State University, Tallahassee, FL, April 2, 2003.
14. Symposium on Severe Plastic Deformation, THERMEC'2003, Madrid, Spain, July 7-11, 2003.
15. Nanotubes, The 2<sup>nd</sup> Annual International Conferences on the Space Elevator, Santa Fe, NM, Sept. 12-15, 2003.
16. Nanomechanics Workshop, Center for Integrated Nanotechnology, Los Alamos National Laboratory and Sandia National Laboratories, Los Alamos, NM, Oct. 23, 2003.
17. Workshop on Nano-structures in the Environment and Technology, University of New Mexico, Albuquerque, NM, Jan. 15-16, 2004.
18. Division review, Materials Science and Technology Division, Los Alamos National Lab., Los Alamos, NM, Feb. 17-19, 2004.
19. Nanostructured Metal and Alloys, MRS Symposium P: Nanoscale Materials and Modeling Relations Among Processing, Microstructure, and Mechanical Properties, San Francisco, CA, April 12-16, 2004.
20. Invited seminar, Sandia National Laboratories, Albuquerque, NM, June 24, 2004.

21. Second Symposium of Carbon Nanotube Separations, 31<sup>st</sup> Annual Meeting of the Federation of Analytical Chemistry and Spectroscopy Society, Portland, OR, Oct. 3-7, 2004.
22. International Symposium on Manufacturing, Properties and Applications of Nanocrystalline Materials, ASM International Materials Solutions Conference, Columbus, OH, Oct. 18-21, 2004.
23. Invited seminar, Florida State University, Tallahassee, FL, Nov. 1, 2004.
24. The Eleventh International Symposium on Plasticity (PLASTICITY 2005), Kauai, Hawaii, Jan. 4-8, 2005.
25. Carbon Nanotube Reinforced Composite Workshop-Toward Revolutionary Advances in Carbon Nanotube Reinforced Composite Fibers for Space & Commercial Applications, Center for Applied Energy Research, University of Kentucky, Lexington, KY, Jan. 11-12, 2005.
26. Department of Chemical and Materials Engineering, University of Kentucky, Lexington, KY, Jan. 13, 2005.
27. Center for Integrated Nanotechnologies (CINT) Workshop, Albuquerque, NM, Jan. 19-21, 2005.
28. 2005 TMS Spring Meeting, Micromechanics of Advanced Materials II (Symposium in honor of James C.M. Li's 80<sup>th</sup> Birthday), San Francisco, CA, Feb. 13-16, 2005.
29. University of California, Davis, CA, Feb. 17, 2005.
30. New Mexico State University, Las Cruces, NM, March 11, 2005.
31. University of California, Irvine, CA, April 26, 2005.
32. Nanomaterials and Nanotechnologies (NN 2005), Crete, Greece, June 14-18, 2005.
33. University of Southern California, Sept. 14, 2005.
34. Ultrafine Grained Materials, JIM-ISIJ, Hiroshima, Japan, Sept. 28, 2005.
35. MRS Fall Meeting, 2005, Symposium Z: Amorphous and Nanocrystalline Metals for Structural Applications, Boston, Massachusetts, Nov. 28-Dec. 2, 2005.
36. Institute of Mechanics, Chinese Academy of Sciences, Beijing, China, Dec. 12, 2005.
37. College of Chemistry and Molecular Engineering, Beijing University, Beijing, China, Dec. 13, 2005.
38. Institute of Metal Research, Chinese Academy of Sciences, Shenyang, China, Dec. 16, 2005.
39. School of Materials Science & Engineering, Nanjing University of Science and Technology. Dec. 23, 2005.
40. 2006 Nanomaterials: Materials and Processing for Functional Applications, TMS Annual Meeting, San Antonio, TX, March 12-16, 2006.
41. GM Research & Development Center, Warren, MI, July 31, 2006.
42. California State University, Northridge, Aug. 11, 2006.
43. North Carolina State University, Sept. 8, 2006.
44. Risø National Laboratory, Denmark, Sept. 28, 2006.
45. MS&T'06, Cincinnati, Ohio, Oct. 15-18, 2006.
46. Materials Capability Review, May 15-18, 2007.
47. University of North Carolina, Charlotte, Sept. 13, 2007.
48. Mechanics of Nanomaterials and Micro/Nanodevices-Experimental and Modeling, MS&T'07, Detroit, Michigan, Sept. 16-20, 2007.
49. Nanotailored Carbon Fibers, Air Force Institute of Technology facility, Dayton, OH, Nov. 6-7, 2007.
50. Hohai University, Nanjing, China, Dec. 17, 2007.
51. Suzhou Institute of Nano-Tech and Nano-Bionics, CAS, Suzhou, China, Dec. 18, 2007.
52. Shanghai Jiaotong University, Shanghai, China, Dec. 19, 2007.
53. Donghua University, Shanghai, China, Dec. 20, 2007.
54. Kunming University of Science and Technology, Kunming, China, Dec. 21, 2007.
55. Beijing University, Beijing, China, Dec. 25, 2007.
56. Institute of Physics, CAS, Beijing, China, Dec. 26, 2007.
57. Xi'An Jiaotong University, Xi'An, China, Dec. 28, 2007.
58. Carolinas Central Chapter, ASM International, Feb. 21, 2008.
59. Plasticity, Failure and Fatigue in Structural Materials: from Macro to Nano, TMS Annual Meeting, New Orleans, LA, March 3-13, 2008.

60. Nanotubes, Nanowires, Nanobelts and Nanocoils–Promise, Expectations and Status, MRS Fall Meeting, Boston, MA, Dec. 1-5, 2008.
61. International Workshop on the Plasticity of Nanocrystalline Metals, Lake Bostal, Germany, Sept. 28–Oct. 1, 2008.
62. Plasticity and Fracture of Nano-Materials, Plasticity-2009, Virgin Island, US, Jan. 3-8, 2009
63. 2009 Functional and Structural Nanomaterials: Fabrication, Properties, and Applications, TMS Annual Meeting, San Francisco, CA, Feb. 15-19, 2009.
64. Hehai University, Nanjing, China, May 28, 2009.
65. South China University of Technology, Guangzhou, China, June 8, 2009.
66. Shanghai Jiaotong University, Shanghai, China, June 11, 2009.
67. Donhua University, Shanghai, China, June 12, 2009
68. University of Nevada, Reno, Nevada, Nov. 20, 2009.
69. The 47<sup>th</sup> Sagamore Army Materials Research Conference, St. Michael, MD, June 14-17, 2010.
70. Tsinghua University, Beijing, China, July 14, 2010.
71. “Shaping and Forming of High Strength Steel, Titanium and Light Metals,” MS&T 2010, Houston, TX, Oct. 17-21, 2010.
72. Size Effects in Mechanical Behavior, 2011 TMS Annual Meeting, San Diego, CA, Feb. 27-March 3, 2011.
73. 2011 Functional and Structural Nanomaterials: Fabrication, Properties, Applications and Implications, 2011 TMS Annual Meeting, San Diego, CA, Feb. 27-March 3, 2011.
74. Shanghai Jiaotong University, Shanghai, China, May 30, 2011.
75. Hohai University, Nanjing, China, July 7, 2011.
76. Institute of Metal Research, Chinese Academy of Sciences, Shenyang, China, July 19, 2011.
77. Rensselaer Polytechnic Institute, Troy, New York, Sept. 14, 2011.
78. Mechanical Properties of Nanomaterials-Experiments and Modeling, E-MRS 2011 Fall Meeting, Warsaw, Poland, Sept. 19-22, 2011.
79. Workshop on Complex Dynamics of Dislocations, Defects and Interfaces, Los Alamos National Laboratory, Nov. 14-16, 2011.
80. College of Textile, NC State University, Jan. 18, 2012.
81. Department of Physics and Astronomy, The University of Texas at San Antonio, Texas, Feb. 3, 2012.
82. Deformation, Damage and Fracture of Light Metals and Alloys, TMS Annual Meeting, Disney World, Florida, March 11-15, 2012.
83. Nanotube Assemblages for Structures Workshop, Atlanta, Georgia, April 17-18, 2012.
84. Recent Development in the Processing and Properties of Ultrafine-Grained Materials, E-MRS 2011 Fall Meeting, Warsaw, Poland, Sept. 17-21, 2012.
85. Stuttgart Nanodays 2012 Workshop, Winston-Salem, NC, Oct. 29-30, 2012.
86. The 2012 Nanotechnology Materials and Devices Workshop, Dayton, OH, Nov. 5-6, 2012.
87. Mechanical Behavior of Metallic Nanostructured Materials, MRS Fall meeting, Boston, Nov. 26-30, 2012.
88. School of Materials Science and Engineering, Shanghai Jiaotong University, Dec. 11, 2012.
89. Advanced Materials and Reservoir Engineering for Extreme Oil & Gas Environments, TMS Annual Meeting, San Antonio, TX, March 3-7, 2013.
90. Lanzhou University, Lanzhou, China, June 12, 2013.
91. International Workshop on Advancing Materials Performance from the Nanoscale, Xi’an, China, June 12-14, 2013.
92. Symposium on Rare Earth, Electronic, and Magnetic Materials, The 8<sup>th</sup> Pacific Rim International Conference on Advanced Materials and Processing, Waikoloa, Hawaii, Aug. 4-9, 2013.
93. Symposium on Light Metals and Alloys, The 8<sup>th</sup> Pacific Rim International Conference on Advanced Materials and Processing, Waikoloa, Hawaii, Aug. 4-9, 2013.
94. Texas A&M University, College Station, TX, Jan. 22, 2014.
95. Symposium on Mechanical Behavior Related to Interface Physics II, 2014 TMS Annual Meeting, San Diego,

- CA, USA, Feb. 16-20, 2014.
96. Ultrafine Grained Materials VIII, 2014 TMS Annual Meeting, San Diego, CA, USA, Feb. 16-20, 2014.
  97. Workshop on Nanomaterials for Aerospace, National Institute of Aerospace, Hampton, VA, USA, Feb. 21, 2014.
  98. Second International Workshop on Materials Physics, Beijing, China, May 30-June 1, 2014.
  99. Friedrich-Alexander University Erlangen-Nürnberg, Germany, July 8, 2014.
  100. Eric Schmid Institute of Materials Science, Leoben, Austria, July 10, 2014.
  101. HGI Colloquium, Herbert Gleiter Institute, Nanjing Univ. Sci. & Techno., Nanjing, China, Nov. 11, 2014.
  102. Workshop on Microstructures and Mechanical Properties of Mg Alloys, Beijing, China, Nov. 13, 2014.
  103. Advanced Materials and Reservoir Engineering for Extreme Oil & Gas Environments, TMS Annual Meeting, Orlando, Florida, March 15-19, 2015.
  104. Advanced Characterization Techniques for Quantifying and Modeling Deformation Mechanisms, TMS Annual Meeting, Orlando, Florida, March 15-19, 2015.
  105. Advances in Thin Films for Electronics and Photonics, TMS Annual Meeting, Orlando, Florida, March 15-19, 2015.
  106. School of Mechanical and Materials Engineering, Washington State University, Pullman, April 17, 2015.
  107. Department of Mater. Sci. Eng., McMaster University, Hamilton, Ontario, Canada, Oct. 26, 2015.
  108. Nanostructured Materials for Nuclear Application, TMS Annual Meeting, Nashville, TN, Feb. 14-18, 2016.
  109. The 3<sup>rd</sup> International Symposium on Materials Physics, May 27-29, 2016
  110. 1<sup>st</sup> Workshop on Gradient and Laminated Metallic Materials, Shenyang, China, July 25-26, 2016.
  111. 1<sup>st</sup> International Harmonic Structured Materials, Ritsumeikan University, Kusatsu, Japan, Aug. 6, 2016.
  112. Special Symposium on Damage and Failure Mechanics: Multiscale Approach, Experimental Characterization, and Modeling, ASME 2016, Phoenix, Arizona, Nov. 11-17, 2016.
  113. Materials under Mechanical Extremes, MRS Fall Meeting, Boston, Nov. 27-Dec. 2, 2016.
  114. Shear Transformation Mechanisms and Their Effect on Mechanical Behavior of Crystalline Materials, MRS Fall Meeting, Boston, Nov. 27-Dec. 2, 2016.
  115. Hehai University, Dec. 22, 2016.
  116. International Conf. on Texture, Micro Texture and Mechanical Behavior, Bangalore, India, Feb. 13-15, 2017.
  117. Advanced Materials and Reservoir Engineering for Extreme (AMREE) Oil & Gas, TMS Annual Meeting, San Diego, CA, Feb. 26-March 2, 2017.
  118. Frontier in Materials Science, Engineering, and Technology: An FMD Symposium in Honor of Sungho Jin, TMS Annual Meeting, San Diego, CA, Feb. 26-March 2, 2017.

### **Symposiums Organized:**

1. Co-Organizer and Co-Chairman: Symposium on Nanocomposites and Multilayered Materials, Third International Conference on Composite Engineering, New Orleans, LA, July 21-27, 1996.
2. Co-Organizer, 1999 Meeting of Society of Engineering Science, Austin, TX, Oct. 25-27, 1999
3. Co-organizer and Session Chair, Novel Ceramics and Composites, The 24<sup>th</sup> Cocoa Beach Conference, Cocoa Beach, FL, Jan. 23-28, 2000.
4. Co-Organizer, Symposium on Microstructural & Mechanical Property Relationships in Advanced Composites, ASME 2000, Orlando, FL, Nov. 5-10, 2000.
5. Primary Organizer, Second International Symposium on Ultrafine Grained Materials, The 2002 TMS Annual Meeting, Seattle, WA, Feb. 17-21, 2002.
6. Organizer, Workshop on Nanostructured Materials Processed by SPD, Los Alamos National laboratory, Los Alamos, NM 87545, Feb. 22, 2002.
7. Primary Coordinator, Symposium on Severe Plastic Deformation, THERMEC'2003, Madrid, Spain, July 7-11, 2003.
8. Primary Organizer, Third International Symposium on Ultrafine Grained Materials, The 2004 TMS Annual Meeting, Charlotte, NC, March 16-20, 2004.
9. Director, NATO Advanced Research Workshop on Nanostructured Materials by High Pressure, Donetsk,

- Ukraine, Sept. 22-26, 2004.
10. Primary Organizer, The Langdon Symposium, Flow and Forming of Crystalline Materials (An Symposium Honoring Prof. Langdon on the Occasion of His 65<sup>th</sup> Birthday), The 2005 TMS Annual Meeting, San Francisco, CA, Feb. 13-17, 2005.
  11. Primary organizer, Fourth International Symposium on Ultrafine Grained Materials, The 2006 TMS Annual Meeting, San Antonio, TX, March 12-16, 2006.
  12. Co-organizer, Processing and Mechanical Response of Engineering Materials, The 2006 TMS Annual Meeting, San Antonio, TX, March 12-16, 2006.
  13. Co-Coordinator, Symposium on Severe Plastic Deformation, THERMEC'2006, Vancouver, Canada, July 4-8, 2006.
  14. Co-Organizer, High Pressure-2006, Fundamentals and Applied Aspects, Sudak, Crimea, Ukraine, Sept. 17-23, 2006.
  15. Co-organizer, Mechanical Behaviors of Nanostructured Materials, in Honor of Carl Koch, The 2007 TMS Annual Meeting, Orlando, FL, Feb. 26-March 1, 2007.
  16. Co-organizer, Fifth International Symposium on Ultrafine Grained Materials, The 2008 TMS Annual Meeting, New Orleans, LA, March 9-13, 2008.
  17. Co-organizer, Mechanical Behaviors of Nanostructured Materials, The 2009 TMS Annual Meeting, San Francisco, CA, Feb. 15-19, 2009.
  18. Co-organizer, Sixth International Symposium on Ultrafine Grained Materials, The 2010 TMS Annual Meeting, Seattle, WA, Feb 14-18, 2010.
  19. Co-organizer, International Symposium on Advances in Nanostructured Materials and Applications, MS&T 2011, Columbus, Ohio, USA, Oct. 16-20, 2011.
  20. Primary Organizer, Bulk Metallic Glasses, Nanocrystalline Materials, and Ultrafine-Grained Materials, PRICM8, Waikiloa, Hawaii, Aug. 4-9, 2013.
  21. Co-organizer, Eighth International Symposium on Ultrafine Grained Materials, The 2014 TMS Annual Meeting, San Diego, CA, Feb 16-20, 2014.
  22. Co-organizer, 2014 TMS RF Mehl Medal Symposium on Frontiers in Nanostructured Materials and Their Applications, The 2014 TMS Annual Meeting, San Diego, CA, Feb 16-20, 2014.
  23. Primary Organizer, Gradient and Laminate Materials, 2015 MRS Fall Meeting, Boston, MA, Nov. 29-Dec. 4, 2015.
  24. Co-Organizer, Creep, Deformation and Nuclear Materials honoring Prof. K.L. Murty, Plasticity 2016, Big Island, Hawaii, Jan. 3-9, 2016.
  25. Co-Organizer, Mechanical Behavior of Nanostructured Materials honoring Prof. C.C. Koch, TMS Annual Meeting 2016, San Diego, CA, Feb. 26-March 2, 2016.
  26. Co-Organizer, Mechanical and Creep Behavior of Advanced Materials honoring Prof. K.L. Murty, TMS Annual Meeting 2016, San Diego, CA, Feb. 26-March 2, 2016.
  27. Primary Organizer, Multiscale Architected Materials (MAM II): Tailoring Mechanical Incompatibility for Superior Properties, TMS Annual Meeting 2016, San Diego, CA, Feb. 26-March 2, 2016.

### Books Edited/Being Edited:

1. **Y.T. Zhu**, T.G. Langdon, R.S. Mishra, S.L. Semiatin, M.J. Saran, and T.C. Lowe, *Ultrafine Grained Materials II*, TMS, Warrendale, PA, 2002.
2. **Y.T. Zhu**, T.G. Langdon, R.Z. Valiev, S.L. Semiatin, D.H. Shin, and T.C. Lowe, *Ultrafine Grained Materials III*, TMS, Warrendale, PA, 2004.
3. **Y.T. Zhu**, and V. Varyukhin, *Nanostructured Materials by High-Pressure Severe Plastic Deformation*, Springer, Dordrecht, The Netherlands, 2005.
4. M.J. Zehetbauer, **Y.T. Zhu**, *Bulk Nanostructured Materials*, Wiley-VCH, Weinheim, Germany, 2006.
5. **Y.T. Zhu**, T.G. Langdon, Z. Horita, M.J. Zehetbauer, S.L. Semiatin, and T.C. Lowe, *Ultrafine Grained*



*Materials IV*, TMS, Warrendale, PA, 2006.

### Guest Editors for Special Journal Issues:

1. **Y.T. Zhu**, P.B. Berbon, A.H. Chokshi, Z. Horita, S.V. Raj, K. Xia, The Langdon Symposium: Flow and Forming of Crystalline Materials, *Materials Science and Engineering A*, **410-411**, 2005.
2. J. Schneider, R.S. Mishra, T.R. Bieler, **Y.T. Zhu**, K.B. Morsi, V.L. Acoff, E.M. Taleff, R.Z. Valiev, Processing and Mechanical Response of Engineering Materials in honor of Prof. A.K. Mukherjee on the occasion of his 70<sup>th</sup> birthday, *Materials Science and Engineering A*, **463**, 2007.
3. **Y.T. Zhu**, Z.L. Wang, T.G. Langdon, and B.C. Carter, Nanostructured Materials – Processing, Structures, Properties and Applications, a special issue of *Journal of Materials Science*, **42 (#5)**, 2007.
4. X.H. Zhang, C.T. Liu, J.M. Rigsbee, C. Suryanarayana, H.Y. Wang, **Y.T. Zhu**, and D.L. Zhang, Mechanical Behavior of Nanostructured Materials, in Honor of Carl Koch, *Materials Science and Engineering A*, **493**, 2008.
5. **Y.T. Zhu**, X.Z. Liao, Z.W. Shan, T.G. Langdon, Y. Estin, R.Z. Valiev, and T.C. Lowe, *Ultrafine Grained Materials*, a special issue of *Journal of Materials Science*, **43 (#23-24)**, 2008.
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