

**EDITORIAL ACTIVITIES:**

- Member, Joint Commission on *Metallurgical and Materials Transactions*
- Member, Editorial Board of *Materials Science and Engineering A*
- Member, Editorial Committee of *Journal of Materials Engineering and Performance*
- Member, Editorial Committee of *International Materials Reviews*
- Key Reader and Member, Editorial Advisory Board, *Metallurgical and Materials Transactions A*
- Member, Editorial Board of *Materials and Manufacturing Processes*
- Member, Editorial Board of *Recent Patents in Materials Science*
- Member, Editorial Advisory Board, *Journal of Metastable and Nanocrystalline Materials*
- Member, Editorial Advisory Board, *Nanoscience & Nanotechnology-ASIA*
- Member, Editorial Advisory Board, *Transactions of the Indian Institute of Metals*

**REVIEWING ACTIVITIES:**

Reviewed research proposals submitted to the following federal funding agencies:

- National Science Foundation
- Department of Defense
- Department of Energy
- Army Research Office
- Forum on Women In Science and Engineering
- American Chemical Society - Petroleum Research Fund
- University of California Energy Institute

Reviewer of manuscripts for publication in the following **scientific journals**:

- Acta Materialia
- Advanced Engineering Materials
- Advanced Performance Materials
- AIAA Journal of Propulsion and Power
- Applied Physics Letters
- Bulletin of Phase Diagrams
- Combustion and Flame
- Composites A: Applied Science and Manufacturing
- Intermetallics
- Journal of Alloys and Compounds
- Journal of the American Ceramic Society
- Journal of Applied Physics
- Journal of Composite Materials
- Journal of Materials Engineering & Performance

- Journal of Materials Research
- Journal of Materials Science
- Journal of Materials Science Letters
- Journal of Materials Science: Materials in Electronics
- Journal of Materials Synthesis and Processing
- Journal of Non-Crystalline Solids
- Journal of Phase Equilibria
- Journal of Vacuum Society
- Materials and Manufacturing Processes
- Materials Research Bulletin
- Materials Science and Engineering A
- Materials Science and Technology
- Metallurgical and Materials Transactions A
- Nanostructured Materials
- Philosophical Magazine
- Philosophical Magazine Letters
- Physics and Chemistry of Materials
- Powder Metallurgy Briefs
- Reviews in Particulate Materials
- RSC Advances
- Scripta Materialia
- Thin Solid Films
- Transactions of the Indian Institute of Metals
- Ultramicroscopy
- Wear

In addition to the reviewing of manuscripts for archival journals mentioned above, several manuscripts submitted for Conference Proceedings were also reviewed. Specific mention may be made of the following conferences for which a large number of manuscripts were reviewed:

- International Conference on Metals and Alloys: Past, Present and Future, Indian Institute of Technology, Kanpur, December 7-10, 2007 (invited papers) for publication in Journal of Materials Science, Vol. 44, 2009.
- International Conference on Metals and Alloys: Past, Present and Future, Indian Institute of Technology, Kanpur, December 7-10, 2007 (contributed papers) for publication in Transactions of the Indian Institute of Metals, Volume 61, 2008.
- International Conference on Mechanical Behavior of Nanostructured Materials, TMS Annual Meeting, Orlando, Feb 25-Mar 1, 2007, for publication in Materials Science and Engineering A, Vol. 493 (October 2008).
- Nanomaterials, Pittsburgh, PA, 2005
- Processing and Properties of Structural Nanomaterials, Chicago, IL, November 9-12, 2003.
- Surface Engineering in Materials Science II, San Diego, CA, March 2-6, 2003.

- THERMEC 2000, Las Vegas, NV, December 4-8, 2000.
- Ultrafine Grained Materials, Nashville, TN, March 12-16, 2000.
- Tenth International Conference on “Rapidly Quenched and Metastable Materials (RQ-10)”, Bangalore, India, August 22-27, 1999.
- Processing and Properties of Nanocrystalline Materials, Cleveland, OH, October 29-November 2, 1995.
- Second International Conference on “Mechanical Alloying for Structural Applications”, Vancouver, BC, Canada, September 20-22, 1993.
- Third International Conference on “Advanced Materials (ICAM-3)”, Tokyo, Japan, August 31-September 3, 1993.
- Eighth International Conference on “Rapidly Quenched and Metastable Materials (RQ-8)”, Sendai, Japan, August 22-27, 1993.
- First International Conference on Nanostructured Materials, Cancun, Mexico, September 22-26, 1992.
- Seventh World Titanium Conference, San Diego, CA, June 28-July 2, 1992.

#### **PLENARY LECTURES AT INTERNATIONAL CONFERENCES:**

- “Mechanochemical Synthesis of Nanocrystalline Metal Powders” (Eugene Ivanov and C. Suryanarayana), 12<sup>th</sup> International Symposium on Novel and Nano Materials (ISNNM – 2012), Istanbul, Turkey, August 26 – 30, 2012.
- “Nanostructured Materials”, International Winter School on “Advances in Aeronautical Materials and Technologies”, Hyderabad, India, December 15-19, 2010, December 17, 2010.
- “Recent Developments in Nanostructured Materials”, International Conference on “Nanoscience, Nanotechnology, and Advanced Materials (NANOS 2010)”, Visakhapatnam, India, December 17-19, 2010, December 18, 2010.
- “Recent Developments in Mechanical Alloying”, XI IBEROMET International Conference, Viña del Mar, Chile, November 2-5, 2010, November 4, 2010.
- “Nanostructured Materials”, Special Lecture at the XI IBEROMET International Conference, Viña del Mar, Chile, November 3, 2010.
- “Microstructural Characterization of Stainless Steel Coatings”, International Conference on “Advances in Electron Microscopy and Related Techniques” and XXXI Annual Meeting of EMSI, Mumbai, India, March 8-10, 2010, March 10, 2010.
- “Nanostructured Materials” International Conference on “Synthesis, Characterization, Consolidation, and Modeling of Nanomaterials (ICON 2010), Coimbatore, India, March 5-6, 2010. (Conference Theme Lecture) (March 5, 2010).
- Third International Symposium on Functional Materials (ISFM 2009), Jinju, South Korea, June 15-18, 2009.

- International Conference on Frontiers of Metallurgy and Materials Technology, Hyderabad, India, January 29-31, 2009.
- International symposium on “The Role of Universities, Technical Societies, and Government in National Development”, Universidad de Atacama, Copiapó, Chile, September 27-29, 2007.
- 13<sup>th</sup> International Symposium on “Metastable and Nano Materials” (ISMANAM 2006), Warsaw, Poland, August 27-31, 2006.
- International Conference on “Trends in Mechanical Alloying: Science, Technology and Applications”, Jaipur, India, February 21-23, 2001.
- Annual Meeting of the Korean Powder Metallurgy Association, South Korea, November 3, 2000.
- Seminar on “Nanocrystalline Materials”, 48<sup>th</sup> Congress of the Brazilian Association of Materials, Rio de Janeiro, Brazil, July 25-30, 1993.

#### **INVITED RESEARCH SEMINARS/LECTURES:**

- “Nanostructured Materials”, King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia, January 3, 2011.
- “Advanced Materials and Nanotechnologies”, Abu Dhabi Gas Industries Ltd. (GASCO), Abu Dhabi, UAE, December 22, 2010
- “Nanocomposites”, Mahatma Gandhi Institute of Technology, Hyderabad, December 20, 2010.
- “Advanced Materials”, Mahatma Gandhi Institute of Technology, Hyderabad, March 8, 2010.
- Bharat Heavy Electricals Ltd. Corporate R & D Center, Hyderabad, India, January 4, 2010.
- “Bulk Metallic Glasses”, King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia, November 15, 2009.
- King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia, November 14, 2009.
- Tohoku University, Sendai, Japan, August 2009
- National Institute for Materials Science, Tsukuba, Japan, July 23, 2009
- Louisiana State University, Baton Rouge, LA, February 20, 2009.
- Northwestern Polytechnic University, Xi’an, China, July 18, 2008.
- Northwestern Polytechnic University, Xi’an, China, July 17, 2008.
- Shenyang National Laboratory for Materials Science, Shenyang, China, July 8, 2008.
- Shenyang National Laboratory for Materials Science, Shenyang, China, July 3, 2008.
- Kyoto University, Kyoto, Japan, May 2, 2008.
- Toyohashi University of Technology, Toyohashi, Japan, April 24, 2008.
- National Institute for Materials Science, Tsukuba, Japan, February 22, 2008.
- WPI-AIMR Research Workshop, Tohoku University, Sendai, Japan, February 18, 2008.
- Defense Metallurgical Research Laboratory, Hyderabad, India, December 13, 2007.

- ASM International, India Chapter and Indian Institute of Metals Bombay Chapter, December 11, 2007.
- Warsaw Technical University, Warsaw, Poland, June 26, 2007.
- Polish Academy of Sciences, Krakow, Poland, June 25, 2007.
- Advanced Research Center (ARCI), Hyderabad, India, May 29, 2007.
- Helmut Schmidt University, Hamburg, Germany, August 17, 2006.
- GKSS Research Center, Geesthacht, Germany, June 6, 2005.
- Tata Research, Development, and Design Center, Pune, India, December 20, 2004.
- National Institute of Technology, Jaipur, India, December 16, 2004.
- GKSS Research Center, Geesthacht, Germany, July 22, 2004.
- University of Barcelona, Bellaterra, Spain, July 16, 2004.
- Hanyang University, Ansan, South Korea, November 28, 2003.
- Kongju National University, Kongju, South Korea, November 27, 2003.
- Chonbuk National University, Chonju, South Korea, March 19, 2003.
- Hanbat National University, Daejeon, South Korea, March 19, 2003.
- International Advanced Research Center for Powder Metallurgy and New Materials, Hyderabad, India, December 17, 2002.
- Hanyang University, Ansan, South Korea, May 16, 2002.
- Research Institute of Industrial Science and Technology (RIST), Pohang City, South Korea, May 13, 2002.
- Gyeong-Sang National University, Jinju City, South Korea, May 10, 2002.
- ASM San Fernando Valley Chapter, Los Angeles, CA, April 26, 2001.
- GKSS Research Center, Geesthacht, Germany, August 16, 2001.
- Korea Advanced Institute of Science and Technology, Daejeon, South Korea, May 14, 2001.
- Colorado School of Mines, November 12, 1998.
- Korea Institute of Science and Technology, September 22, 1998.
- Colorado School of Mines, March 12, 1998.
- Banaras Hindu University, Varanasi, India, December 6, 1996.
- Inland Empire (Spokane) Chapter of ASM International, September 13, 1994.
- University of Idaho, Moscow, ID, February 10, 1994.
- Washington State University, Pullman, WA, November 2, 1993.
- Nihon University, Tokyo, Japan, August 30, 1993.
- Nagoya University, Nagoya, Japan, August 20, 1993.
- Osaka University, Osaka, Japan, August 19, 1993.
- Kobe Steel Co., Kobe, Japan, August 18, 1993.
- NEC Research Laboratories, Tokyo, Japan, August 17, 1993.
- University of Idaho, Moscow, ID, February 1, 1993.
- Indian Institute of Science, Bangalore, India, August 23, 1992.
- Indian Institute of Metals, Bombay Chapter, Bombay, India, August 21, 1992.
- Banaras Hindu University, Varanasi, India, August 19, 1992.
- Washington State University, Pullman, WA, April 23, 1992.
- University of Idaho, Moscow, ID, March 8, 1991.
- University of Dayton, Dayton, OH January 11, 1990.

- Wright-Patterson Air Force Base, Dayton, OH, September 13, 1988.
- University of Oxford, Oxford, UK, December 4, 1986.
- University of Cambridge, Cambridge, UK, November 19, 1986.
- University of Sheffield, Sheffield, UK, October 30, 1986.
- National Physical Laboratory, New Delhi, October 20, 1986.
- Bangladesh University of Engineering & Technology, Dhaka, Bangladesh, October 21, 1984.
- Bangladesh Atomic Energy Commission, Dhaka, Bangladesh, October 20, 1984.
- Tohoku University, Sendai, Japan, October 8, 1984.
- Tokyo University, Tokyo, Japan, September 27, 1984.
- Kyoto University, Kyoto, Japan, September 21, 1984.
- Osaka University, Osaka, Japan, September 19, 1984.
- Sumitomo Light Metal Industry Ltd., Nagoya, Japan, September 18, 2004.
- Japan Institute of Light Metals, Nagoya, Japan, September 17, 1984.
- Defence Metallurgical Research Laboratory, Hyderabad, India, July 31, 1982.
- Indian Physics Association Tirupati, India, June 29, 1982.
- Corporate Research & Development Division, Bharat Heavy Electricals Ltd., Hyderabad, June 21, 1982.
- Reactor Research Center, Kalpakkam, India, December 27, 1980.
- Reactor Research Center, Kalpakkam, India, December 26, 1980.
- Indian Institute of Technology, Madras, Department of Metallurgy, December 23, 1980.
- Indian Institute of Technology, Madras, Department of Physics, December 23, 1980.
- Banaras Hindu University, Varanasi, India, September 20, 1980.
- Kawasaki Steel Co., Mizushima, Japan, May 26, 1980.
- Sumitomo Special Metals Co., Osaka, Japan, May 24, 1980.
- Kyoto University, Kyoto, Japan, October 20, 1979.
- Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf, Germany, December 5, 1973.
- University of Erlangen, Erlangen-Nürnberg, Germany, December 4, 1973.
- Catholic University, Leuven, Belgium, November 23, 1973.
- Atomic Energy Research Center, Mol, Belgium, November 21, 1973.
- Atomic Energy Research Center, Mol, Belgium, November 7, 1973.
- University of Sussex, Brighton, UK, May 15, 1973.

July/August 2010. NIMS.

July 2010. ISMANAM Invited Lecture

February 2010. TMS Seattle, WA.

#### **NATIONAL/INTERNATIONAL CONFERENCES ORGANIZED:**

- International Symposium on Manufacturing, Properties, and Applications of Nanocrystalline Materials, Columbus, OH, October 18-21, 2004
- Processing and Properties of Structural Nanomaterials, Chicago, IL, November 9-12, 2003.
- Surface Engineering in Materials Science II, San Diego, CA, March 2-6, 2003.
- THERMEC 2000 (International Conference on Processing and Manufacturing of Advanced Materials), Las Vegas, NV, December 4-8, 2000.
- Ultrafine Grained Materials, Nashville, TN, March 12-16, 2000.
- Recent Advances in Powder Consolidation, Rosemont, IL, October 14-15, 1998.
- Processing and Properties of Nanocrystalline Materials, Cleveland, OH, October 29-November 2, 1995.
- Synthesis/Processing of Lightweight Metallic Materials, Las Vegas, NV, February 13-16, 1995.
- Seminar on Transmission Electron Microscopy in Phase Transformations, Varanasi, March 1985.
- Workshop on Electron Microscopy, Varanasi, March 1985.
- Light Metals: Science and Technology, Varanasi, India, November 14-16, 1983.
- XV Annual Conference of the Electron Microscope Society of India, December 1982.
- Regional Workshop on Non-Destructive Examination, Varanasi, December 1981.
- National Workshop on Metallic Glasses: Science and Technology (DST), Varanasi, October 1980.
- Seminar on Transmission Electron Microscopy in Phase Transformations, Varanasi, March 1978.
- Third Short Course on Field Emission and Ion Microscopy (ISTE), Varanasi, March 1972.

In addition to the above, actively involved in the Organizing Committees of the following international conferences:

- The 6th International Conference on Advanced Materials and Processing (ICAMP 6), Lijiang, Yunnan, P.R. China, July 19-23, 2010.
- International Conference on Synthesis, Characterization, Consolidation and Modelling of Nanomaterials, Coimbatore, India, March 5-6, 2010.
- International Conference on Frontiers of Metallurgy and Materials Technology, Hyderabad, India, January 29-31, 2009.

- International Conference on Metals and Alloys: Past, Present and Future, Indian Institute of Technology, Kanpur, December 7-10, 2007.
- THERMEC 2003 (International Conference on Processing and Manufacture of Advanced Materials), Madrid, Spain, July 7-11, 2003.
- International Conference on Trends in Mechanical Alloying: Science, Technology, and Applications, Jaipur, India, February 21-23, 2001.
- International Conference on Metallurgical Technologies, Varanasi, India, December 9-12, 1998.
- Second International Conference on Structural Applications of Mechanical Alloying, Vancouver, BC, Canada, September 20-22, 1993.
- First International Conference on Structural Applications of Mechanical Alloying, Myrtle Beach, SC, March 27-29, 1990.
- XVII Annual Meeting of the Electron Microscope Society of India, Chandigarh, January-February 1986.
- 37<sup>th</sup> Annual Technical Meeting of the Indian Institute of Metals, Varanasi, November 1983.
- Seminar on “High Resolution and Analytical Microscopy”, Kalpakkam, India, February 1982.
- Tenth National Conference on Crystallography, Varanasi, February 1979.
- International Conference on Metal Sciences – The Emerging Frontiers, Varanasi, November 1977.
- Summer School in Advanced Metallography, Varanasi, June-July 1971.