HONOUR LECTURES

 Energy Foresights, Security and Sustainability Inaugural Address at the NIAS-DST Training Programme on "Policy for Science and Science for Policies", National Institute of Advanced Studies, Bengaluru 7 November 2016

National Strategies to Ensure that Standards Build Trust
 Presidential address at the Bureau of Indian Standards, Southern Regional Office, Chennai 16 October 2016

 Energy Foresights, Security and Sustainability BRICS Young Scientist Forum: Bangalore Conclave-2016 Organizers: NIAS & DST, 27th September 2016

4. 4th Industrial Revolution: Indian-Russian Collaborations Russian-Indian Think-Tank Forum, Moscow State Institute of International Relations (MGIMO), Moscow, Organized by Indian Council of World Affairs, New Delhi, 22-23 September 2016

 India, ambitions depends on competent and ethical young minds Silver Oaks International School, Bangalore 10 September 2016

 Energy Foresight, Security and Sustainability in the Context of India Indian School of Mines, Dhanbad 18 August 2016

 Challenges and Opportunities in the Processing and Recycling of Rare-Earths in India Inaugural talk at the Indo-french workshop on Challenges in the Processing and Recycling of Rare Earths (CIPRE), TRDDC, Hadapsar, Pune 19 July 2016

8. Frontiers in Non-Destructive Evaluation for Condition Monitoring CMSI-GITAM Endowment lecture, GITAM University Campus, Visakhapatnam 4th March 2016

9. Energy Foresight, Security and Sustainability in the Context of India Baldev Raj

D. V. Narasimha Rao Memorial Lecture, The Institution of Engineers (India), Mysore 15th February 2016

10. Consciousness, His Holiness Dalai Lama and National Institute of Advanced Studies Baldev Raj

Inaugural Address at the His Holiness the 14th Dalai Lama Visit, NIAS, Bangalore 6 December 2015

11. Energy Security: Foresight and Technologies

Baldev Raj

Monash Energy Materials and Systems Institute (MEMSI) Forum, Monash University, Australia 19th November 2015

12. Panel Discussion: Improving the quality of higher education in Institutions to bring them at par with the top institutions of the world

Baldev Raj

President of India Conference, Ceremonial Hall, Rashtrapati Bhavan Cultural Centre, New Delhi 5 November 2015

13. Engineering, Education on India: Learning and Aspirations Baldev Raj

Symposium on "Engineering Education in the 21st Century: Issues Related to IMPRINT (India) and Grand Challenges (USA), INAE, MHRD and NAE(USA) Joint Symposium, India International Centre, New Delhi (oral)

16th October 2015

14. Energy Security: Foresight and Technologies

Baldev Raj

Dr Raja Ramanna Memorial Lecture, Institute of Defence Scientists & Technologists (IDST) Bangalore

19 September 2015

15. Energy Security: Foresight and Technologies

Baldev Rai

First Golden Jubilee Lecture at CSIR-Indian Institute of Toxicology Research, Lucknow 25 August 2015

Science on Strategic Sector

Baldev Rai

Presentation to Hon'ble Prime Minister of India, Prime Minister Residence, New Delhi 19 August 2015

17. Intertwined Science, Engineering and Technology to Meet National Aspirations

Baldev Raj

Fresher's Day Function, M.S. Ramaiah Institute of Technollgy, Bangalore 6 August 2015

18. Indian Institute of Science & Indian Nuclear Programme

Baldev Raj

Third IISc Alumni Global Conference-2015, session on "Contributions to Strategic Sectors ", Indian Institute of Science, Bangalore

26 June 2015

19. Challenging Inequalities with Science and Technologies, Social Sciences, Humanities and Policies Baldev Rai

Convocation address, Christ University, Bangalore

21 May 2015

20. Impact of Corrosion on Competitiveness and Growth

Baldev Rai

International Corrosion Awareness Day at FICCI, Delhi, organized by NACE International, The Worldwide Corrosion Authority

24 April 2015

 Inaugural talk at the Two-day discussion meeting on "Bridging Innovations in Academic Institutions to Society", NIAS, Bangalore, Organized by NIAS, Thematic Unit of Excellence, Indian Institute of Technology (IIT) Madras

28-29 April 2015

22. Defence Aspiration of India: Translating Homi Bhabha Model to the Current Realities Baldev Rai

Convocation address Raising Day, Defence Institute of Advanced Technology (DIAT), Pune 1 May 2015

23. Energy Security and Sustainability: Approaches and Priorities for Growing and Aspiring India Baldey Rai

Prof. T R Anantharaman Memorial Lecture, IIT, Banaras Hindu University, Varanasi 13 April 2015

24. Energy Security and Sustainability: Approaches and Priorities for Growing and Aspiring India Baldev Raj

Public Lecture on Energy Security of India, Indian Institute of Science Education and Research (IISER), Mohali

26 March 2015

25. Energy Security and Sustainability: Approaches and Priorities for Growing and Aspiring India Baldev Raj

Inaugural Address, Seismech'15, Annual Symposium of Department of Mechanical Engineering, IIT Guwahati

20 March 2015

26. Presidential Address: Evidence Based Planning and Implementations of Clean Secure and Sustainable Energy in India

Baldev Rai

Book release function entitled: Wind and solar energy for meeting Karnataka's future electricity demand organized by NIAS and The Power System Operation Corporation Limited, NIAS, Bangalore

5 March 2015

27. Gender Participation in Science and Technology: an Essentiality to Meet National Aspirations ORAL

Baldev Raj

Valedictory address: NIAS-DST(DISHA Programme for Women in Science) Course on Science for Progress in India: Innovations in Technologies for Scientists and Technologists February 27, 2015

28. A Perspective on Energy Demands and Security: Technology, Ethics and Equity Baldev Raj

Mahatma Gandhi Institute of Technology, Hyderabad

7th February 2015

29. A Perspective on Energy Demands and Security: Technology, Ethics and Equity Baldev Rai

Nuclear Fuel Complex, Hyderabad

6th February 2015

30. A Career in Non-Destructive Evaluation: Fun, Fame, Money and Building India Baldev Raj

Two-day Śkill Development Workshop on "Non Destructive Testing For Engineering Students" at QIS College of Engineering & Technology, Ongole, Andhra Pradesh 28th January, 2015

31. Convocation Address at Indian Institute of Information Technology Design and Manufacturing (IIITDM), Kancheepuram

30th January 2015

32. Building a Holistic Perspective of India in the 21st century

Baldev Raj

12th Convocation Address, Swami Vivekananda Yoga Anusandhana Samsthana (S-VYASA), Bangalore,

12 January 2015

33. Challenging Inequalities: A holistic Aspiration and Topological Map

Baldev Raj

IC4HD (International Centre for Human Development)-NIAS Round Table-Addressing Economic inequality In India

8 January 2015

34. Presidential Address: Discussion Meeting on Indian Metallic Heritage: Perspectives and Issues on Characterization and Conservation of Ancient Metallic Objects

Dr. Baldev Raj

Organised by INAE, ASI, Dept. of Culture & IIM, ASM Intl. USA, New Delhi

3 December 2014

35. A Perspective on Challenges and Opportunities to Meet Energy Demands of Emerging and Aspiring India

Baldev Raj

Institute Lecture series, Excellence Awards Function, IIT Gandhinagar 2nd December 2014

36. Sustainable Engineering and Technology: Relevance, Ethics and Scalable Baldev Rai

Chief Guest at 1st Convocation of National Institute of Technology Puducherry (Karaikal) 6 December 2014

37. Distributed: Life cycle management and supportable energy and water sustainable systems Baldev Ral

Workshop on Sustainable Technologies for Educational Campuses, ECE Department, Indian Institute of Science, Bangalore (Inaugural talk)

7 November 2014

38. A Perspective on Challenges and Opportunities to Meet Energy Demands of Emerging and Aspiring India

Baldev Raj

Foundation Day Lecture, Indian Institute of Technology Kanpur,

2nd November 2014

39. Presidential Address: Role of Indian National Academy of Engineering in Nation Buildings Baldev Raj

Special Brainstorming Meeting on the Theme "Weather & Climate" during Engineer's conclave-2014 (jointly organized by INAE & ISRO) during October 30-1st November, 2014, Bangalore

40. Management Actions following Tsunami at Kalpakkam

Baldev Raj

Dr. S.S. Ramaswamy Memorial Endowment Lecture,

31st DAE Safety & Occupational Health Professionals Meet, IGCAR, Kalpakkam

15 October 2014

41. A Perspective on Technology Challenges with Emphasis on Energy Security & Sustainability Baldev Rai

Brahm Prakash Memorial Medal Lecture

INSA-IIT, Madras

Chennai, August 4th, 2014

42. Presidential Address: A Perspective on National and International Collaborative Scalable and Sustainable example of success in Indian Science and Technology

Baldev Rai

International Conference on Advancements in Materials, Health and Safety towards Sustainable Energy & Environment

Organized by Indian JSPS Alumni Association(IJAA), Govt.of India Atomic Energy

Regulatory Board (AERB), Japan Society for the Promotion of Science(JSPS) Japan,

Bio Nano Electronics Research Centre(BNERC) Toyo University, Japan

Chennai, August 7th -8th, 2014

43. A Perspective on Technology Challenges with Emphasis on Energy Security & Sustainability Baldev Raj (Pre Dinner Talk to Young Engineers)

Indo-American Frontiers of Engineering Symposium jointly organized by National Academy of Engineering, US and Indo-US Science and Technology Forum Mysore, May 19th ,2014

44. Measurements to Solve Global Challenges

Baldev Raj

World Metrology Day, CMTI, Metrological Society of India,

Bangalore, 20th May, 2014 (delivered on the occasion of the first Life Time Achievement Award by Indian Metrological Society)

45. Energy Sustainability and Security: Eminent Choice of Nuclear Energy for India

Baldev Raj

National Technology Day Lecture, L&T Coimbatore, India May 9^{th} ,2014

46. Matching Aspirations with R&D in Functional Textiles, in Indian Context Baldev Rai

Two Day Conference on Advances in Functional Smart and Innovative Textiles organised by PSG IAS and PSG STEP, Department of Science and Technology Coimbatore 27th-28th February,2014

47. Science and Technology Aspirations of Current India

Baldev Raj

World Congress on Research & Innovation 2K13

St. Josephs College, Thrissur, Kerala, December 17th -20th, 2013

48. NDE for Achieving Sustainability with Equity

Baldev Raj

14th APCNDT, Mumbai, November 18th, 2013

49. Materials Related Technologies in our Cultural Heritage

Baldev Rai

CV Sundaram Memorial Lecture-National Institute of Advanced Studies Bangalore, October 30th, 2013

50. Approaches to Challenges in Materials & Manufacturing Development for Defence Systems Baldev Rai

Materials Technologies for Defence: Success Stories and the Road Ahead Organised by Defence Metallurgical Research Lab, Golden Jubilee Conference Inaugural Lecture Hyderabad. October 25th -26th. 2013

51. Non-Destructive Evaluation: Enhanced Role with Challenges; A Perspective specific to Asia Pacific Region

Baldev Rai

14th Asia Pacific Conference on NDT

Mumbai, November 18th, 2013.

52. High Performance Computing 2013: Human Resources Development Matching with National and Global Challenges, Workshop Emerging Trends and Advances in Computing: Academic, Research and Industry Perspectives, Inaugural Talk

TEQUIP-Phase II, PSG College of Technology, November 13th, 2013

53. Prof. Brahma Prakash Memorial Medal Lecture: Energy Growth with Sustainability Challenges for India: Science, Technology, Innovation & Policy Baldev Rai

Indian National Science Academy- Chennai Chapter, December 2013

54. Development of Stainless Steels in Nuclear Industry: with Emphasis on Sodium Cooled Fast Spectrum Reactors: History, Technology and Foresight

Baldev Rai

Stainless Steel Centenary Symposium SSCS 2013, organized by IIM & DAE , August 12-14, Mumbai

55. Energy Challenges of India: Contributions of material Scientist and Technologists Baldev Rai

A lecture Series on Sustainability of Indian Energy Sector: Prospects and Challenges, Jadavpur University, August 22nd, 2013

56. Energy Challenges of India: Contributions of Material Scientist and Technologist Baldev Raj

Golden Jubilee Lecture Series

CSIR – Institute of Minerals & Materials Technology, Bhubaneshwar July 22^{nd} 2013 .

57. Materials for Energy Systems (included in October 2014)

Baldev Raj

Presentation to Planning Commission, New Delhi, India.

June 03rd 2013.

58. Distinguished Lecture: Welding Science and Technology in the World: A perspective on International Institute of Welding

Baldev Rai

International Conference on Design Fabrication & Economy of Metal Structures in the University of Miskolc, Hungary, April 21-26th, 2013

- 59. History, Science and Research Auspects of Materials, Chemistry and Corrosion First National Science Day Lecture instituted by NACE Gateway India, during International Symposium on Corrosion for Research Scholars, organized by NACE Gateway of India, IGCAR, DAE & BRNS, India, February 28th, March,2013
- 60. Presidential Address: Realisation of Solutions with Functional Materials and Structures for meeting Energy Challenges (FAEMMS-2013), organized by SEST, University of Hyderabad, Indian National Academy of Engineering & Royal Academy of Engineering, UK Hyderabad, March 26th & 26th, 2013
- 61. Frontiers in Non Destructive Evaluation Science & Technology National Science Day Lecture, organized by Defence R& D organization, Ministry of Defence, Delhi, 28th, February, 2013
- 62. Presidential Address: Pathways to Enhance Applications of Relevant Welding Technologies in African Continent (in capacity as President, International Institute of Welding)
 International Institute of Welding, Conference on Frontiers in Welding Science and Technology Baldev Raj
 South Africa 6th -8th, October, 2012
- 63. Presidential Address: New Frontiers in Materials: A Need for Enhancing Synergy of Science and Technology to Society
 Nano Science and Technology, PSG Institutes, Coimbatore, October 2012
- 64. Enriching and Enhancing Young Metallurgists of India Presidential Address during Dr. Placid Rodriguez Endowment Lecture, IIM Chennai & Kalpakkam Chapter at IIT, Madras, October 25th, 2012
- 65. A Few Directions and Approaches for Enhanced Research and Application of High Nitrogen Steels

Baldev Raj

- 11th International Conference on High Nitrogen Steels and Alloys, Organised by Indian Institute of Metals and Board of Research in Nuclear Sciences, Chennai, India, September 27-29, 2012
- 66. Faraday: A colossal Scientist Unparallel in Contributions with Robust Lessons to Live Life First Faraday Birthday Celebration in India: Confederation of Indian Industry, Chennai & National Institute of Ocean Technology, Chennai, September, 22, 2012
- 67. Demands on Capacity and Capability of HRD to attract and retain quality human resources: Human Resources Development Conference, Organised by PSG Institute of Management, Coimbatore,

SMA-YOG, August 2012

- 68. Innovations: Sharing Experiences in Devising Successful Mantra and Motivation Strategy International Conference towards a Better Innovation, Organised by Indian National Academy of Engineering, New Delhi, September 21-22, 2012
- 69. Addressing Challenges in Water Management in Synergy with International Collaborations Organised by Indian Institute of Technology, September, 2012
- 70. Sustainable Development; 40th World Environment Day, National Institute of Quality and Reliability Coimbatore, June 5, 2012
- 71. Clean energy technologies: Nuclear energy with safety for sustainability Baldev Raj

National Science Day Lecture, Department of Science & Technology, IIT New Delhi, February 28, 2012

72. National Challenges: An opportunity to enrich and enhance science based technologies Baldev Raj

National Technology Day Lecture, IIT, Madras, May 11, 2012

73. An exciting journey in NDE: My life, my love
Academia NDT International meeting with 5 eminent speakers including Nobel Laurette,
Harold Krote, 18th World Conference on NDT, Durban, South Africa, April 2012

- 74. Building an eminent centre of excellence in NDE, R&D and work programmes by the Directors of the institutes (from all the continents) to frame vision of working group on education and research, International committee on NDT, Durban, South Africa, April 2012
- 75. Development of science based technology of welding and hardfacing for Indian fast reactor programme

Baldev Rai

Portevin Lecture, 64th Annual Assembly and International Conference of International Institute of Welding, Chennai, July 17, 2011

76. Challenges in materials science of sodium cooled fast reactors and fuel cycle: Approaches and successes

Baldev Rai

1st Annual Materials Lecture, International Centre for Materials Science, Bangalore, June 24, 2011

77. Science and technology of sodium cooled fast reactors and associated fuel cycles Baldev Rai

6th Raja Ramanna Memorial Lecture, Variable Energy Cyclotron Centre, Kolkata, June 16, 2011; Prof. C.V. Sundaram Memorial Lecture, Indian Institute of Metals, Mumbai Chapter, August 6, 2011

78. Challenges and opportunities to meet growing Indian energy needs with sustainability and competitiveness

Baldev Rai

Sichuan University, Chengdu, China, June 10, 2011

- Energy options & issues: Challenges & opportunities in materials science & technology Indian National Science Academy (INSA) Prize for Materials Science Lecture 2010, Indian Institute of Technology Madras, Chennai, March 14, 2011
- 80. Fun of doing Science: Make earth a better planet Baldev Raj

Distinguished Research Scholar Lecture to Senior Students of Lalaji Memorial Omega International School, Chennai, January 4, 2011; Popular Lecture, Chennai Science Festival 2011, Chennai, January 30, 2011

81. Energy, ethics and equity – An interactive, intricate & inevitable triad of sustainability matrix Baldev Raj

Evening Lecture during International Conference on Vistas in Chemistry, Indira Gandhi Centre for Atomic Research, Kalpakkam, October 11, 2011:

Narsee Moonjee Institute of Management Studies, Mumbai, August 19, 2011;

Dr. A.S. Rao Memorial Lecture, Andhra Pradesh Akademi of Sciences, May 11, 2011;

Felicitatin Lecture, ASM International Chennai Chapter, Chennai, April 8, 2011;

Distinguished Lecture, University of Hyderabad, March 21, 2011;

INSPIRE Science Camp, Madras Diabetes Research Foundation, Chennai, December 28, 2010; Special lecture delivered to Trainee Officers & Research Scholars, Kalpakkam, January 12, 2011; Naval Materials Research Laboratory, Ambernath, Maharashtra, August 16, 2010; Golden Jubilee Lecture, National Metallurgical Laboratory, Jamshedpur, August 31, 2010

82. Challenges and opportunities in sodium cooled fast breeder reactor and associated fuel cycle: Emphasis on chemistry and related technologies

Baldev Rai

Ashland-Prof.C.N.R. Rao Medal and CHEMCON Distinguished Speaker Award, Indian Institute of Chemical Engineering, Annamalai University, Chidambaram, December 27, 2010

83. Energy, ethics and equity

World Nuclear University Summer Institute 2010, Oxford, United Kingdom, August 4, 2010

84. Challenges and opportunities in nuclear energy

Baldev Raj

12th Technology Day Lecture, National Aluminium Co. Ltd., Bhubaneswar, May 11, 2010

85. Nanomaterials Research: opportunities & Challenges

Baldev Raj

Inaugural Address during the International Conference on Nanoscience & Nanotechnology organized jointly by SRM University and Indira Gandhi Centre for Atomic Research, February 24, 2010; Evening talk to India-Brazil-South Africa School on Advanced Materials for Sensor Applications, Mamallapuram, February 23, 2010

86. An approach to energy sustainability

Baldev Raj

Dr. Swaminathan Endowment Lecture, Layola Institute of Frontier Energy, Chennai, December 2, 2009

87. Science & technology of sodium cooled fast reactors and associated fuel cycles Baldev Raj

DAE Raja Ramanna Lecture in Physics, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, October 9, 2009

88. An approach to energy sustainability

Baldev Raj

Rukmini Lakshmipathy Endowment Lecture, Womens Christian College, Chennai, September 23, 2009

89. Science and technology of Fast Breeder Reactor Programme in India: Challenges and Achievements

Baldev Raj

National Chemical Laboratory Diamond Jubilee Lecture, Pune, July 24, 2009

90. Ethics, equity and energy

Baldev Rai

Presidential talk, "Green Generation Programme", organized by Exnora Green Pammal, Atomic Energy Central Schools & Kendriya Vidyalaya Schools at Kalpakkam, Convention Centre, Anupuram, July 15, 2009

91. Series of lecture on Materials for Energy Systems

Nagaoka University of Technology, Japan under the auspices of Japan Society for Promotion

of Science Senior Visiting Fellowship, May 18 to June 6, 2009

Science and technology of fast reactor materials: Challenges and achievements
 Distinguished Materials Scientist Award lecture, Annual Meeting of Materials Research Society
 of India, Kolkata, February 10-12, 2009

93. Course on Current Research & Developments in Materials for Mega Energy Systems Baldev Rai

PSG College of Technology, Coimbatore, December 29, 2008

94. Ethics, equity and energy

Baldev Rai

Post-graduate students, PSG College of Technology, Coimbatore, December 29, 2008

95. Building cutting edge competence in engineering manufacturing

Baldev Raj

Lecture delivered to Visionary Corporate Leaders for Manufacturing (VLFM), Confederation of Indian Industries, Gurgaon, December 22, 2008

96. Current status and future directions: Role of NDE in enhancing economics and safety of nuclear energy as a sustainable option

Baldev Raj

Quality Month Celebration, Nuclear Fuel Complex, Hyderabad, November 27, 2008

97. Sustainable Nuclear Energy: Materials Challenges

Baldev Rai

Knowledge Leadership Forum, SASTRA University, Thanjavur, August 8, 2008

98. Science and technology of fast breeder reactor programme in India: Challenges and achievements

Baldev Raj

Prof. Jai Krishna Memorial Award lecture 2008, Annual Convention of Indian National Academy of Engineering, Goa, December 5-6, 2008

99. Ethics, equity and energy

Baldev Raj

Joint Indo-Belgium Seminar on Nuclear Research towards Sustainable Development, Chennai, November 11, 2008

100. Ethics, equity and energy

Baldev Raj

Council meeting of Academia NDT International, Shanghai, China, October 26, 2008

 Science & Technology of Fast Breeder Reactors : Indian Success Story Baldev Raj

24th Prof. Brahm Prakash Memorial Lecture (2008), August 21, 2008 (awarded every year to an eminent and distinguished metallurgist by the Indian Institute of Metals, Bangalore Chapter)

- 102. Convocation Address, Satyabama University, Chennai, April 19, 2008
- Design and performance of Fast Reactor fuels for achieving energy sustainability and security

Baldev Rai

Dr. P.R. Roy Memorial Lecture, Powder Metallurgy Association of India, February 20, 2008

104. Fast reactor programme and associated fuel cycle facility: In the context of Indian nuclear scenario

Baldev Raj

Prof. K.S.G. Doss Memorial Lecture, Fourteenth National Convention of Electrochemists, Society for Advancement of Electrochemistry Science & Technology, December 6, 2007

105. A perspective on materials science & technology programme at Indira Gandhi Centre for Atomic Research, Kalpakkam

Baldev Raj

Prof. A.K. Seal Memorial Lecture, Indian Institute of Metals, Kolkata, July 31, 2007

 Status of sodium cooled fast reactors with closed fuel cycle in India Baldev Raj

Director's colloquia, Los Alamos National Laboratory, USA, July 10, 2007. It is a distinction honour and this was chosen in the year 2011 by the Los Alamos National Security, LLC (LANS) to put on its external LANS website.

107. Marvels of Indian Bronze – Gods come alive

Baldev Rai

Institute for South Asia, Tibet and Buddhism of Vienna University, Vienna, Austria, June 15, 2007

108. An overview of materials technology at IGCAR

Baldev Raj

Institut de Soudure, Villepinte, France, May 10, 2007

109. Nuclear energy programme of India: Vision and challenges

Baldev Raj

Bharat Ratna C.Subramaniam Memorial Endowment Lecture, University of Madras, Chennai, March 29, 2007

110. Engineering education to contribute to science based mission technologies

Baldev Rai

Sri Venkateswara College of Engineering, Sriperumbudur, March 20, 2007

111. Education to enhance competence, capacity and commitment to achieve better quality of life Baldev Rai

Loyola College, Chennai, March 20, 2007

112. Acoustic techniques for materials research, characterization and performance Baldev Rai

Stanley Ehrlich Gold Medal Distinguished Lecture, Madras-India Regional Chapter of the Acoustical Society of America & International Research Institute for the Deaf (IRID), India, Chennai, December 2006

113. Nuclear energy programme of India: Self sufficiency to leadership

Baldev Raj

Defence Services Staff College, Wellington, Nilgiris, November 20, 2006

114. Pursuit of Science: Fun and services to the society

Baldev Rai

Lecture delivered to Class XI and XII students in Wellington, Nilgiris, November 20, 2006

- 115. Presidential Address, Scholarship Award function, SSN College of Engineering, November 17, 2006
- 116. A perspective on nuclear energy in India: Achievements and challenges in materials science& technology

Baldev Raj

1st A.K. Rao Memorial Lecture, ISAMPE, National Aerospace Laboratories, Bangalore, September 7, 2006

117. A perspective on the nuclear programme in India

Baldev Raj

Lecture delivered to Post-graduate students, PSG College of Technology, Coimbatore, August 28, 2006

118. Pursuit of Science: Fun and service to the society

Baldev Raj

Lecture delivered to Class XI and XII students at Coimbatore, August 28, 2006

119. Interaction with the students pursuing management studies

Baldev Raj

Lecture delivered to students of Management Study, PSG College of Technology, Coimbatore, August 28, 2006

120. Fast breeder technology: A passionate journey for providing energy security to India through nuclear energy

Baldev Raj

Guest of Honour lecture to young trainees, Defence Institute of Armament Technology, Pune, June 8, 2006

121. Fast breeder technology: A passionate journey for providing energy security to India through nuclear energy

Baldev Raj

Guest of Honour lecture, Vellore Institute of Technology, Vellore, July 29, 2006

122. A voyage of creativity and relevance: Senor science and technology Baldev Raj

Guest of Honour lecture, Vellore Institute of Technology, Vellore, July 30, 2006

123. Pursuit of Science: Joy and Pride

Baldev Rai

18th Foundation Day Lecture, DAV Public School, Bhubaneswar, August 5, 2006

124. Development of Fast Breeder technology in India: Status and directions Baldev Rai

Prof. E.C. Subba Rao Memorial Lecture, Indian Institute of Technology, Kanpur (2006)

125. Robust diagnosis of degradation in aerospace structures using NDE methodologies Baldev Raj

Prof. P. Joga Rao Memorial Lecture, 14th National Seminar on Aerospace Structures, Visvesvaraya National Institute of Technology, Nagpur, January 30, 2006

126. Materials challenges for energy security of India

Baldev Rai

Presidential address: 43rd National Metallurgists' Day and 59th Annual Technical Meeting of The Indian Institute of Metals, Chennai, November 12, 2005

127. Pursuit of science: Joy and pride – Fascination and excitements of materials scientist Baldev Raj

Prof. Brahm Prakash Memorial Lecture, Indian Institute of Metals, Kalpakkam (2005)

128. Welding research in India – Current interests & future directions Baldev Raj

Jaeger Lecture, International Institute of Welding, Mumbai, February 16, 2005

129. Welding science & technology: Past, present and future – A journey through our experience at IGCAR

Baldev Raj

Life Time Achievement Award, Indian Welding Society, Indian Welding Society, Hyderabad, February 18, 2005

 Robust fast breeder reactor and associated fuel cycle technology towards energy security Baldev Raj

Prof. R.V. Tamhankar Memorial Lecture, Indian Institute of Metals, Hyderabad (2005)

 Status on fast breeder reactors in India Baldev Raj Special lecture to HWB-NFC Training School students, Hyderabad (2005)

132. Development of fast breeder reactors and fuel cycle in the context of energy security to the nation

Prof. C.Y. Krishna Murti Memorial Lecture, National Institute for Quality and Reliability, Chennai, September 5, 2005

133. Nuclear power scenario in India: Its future prospects and technology challenges in FBR and fuel cycle

Special lecture to young officers at Institute of Armament Technology, Pune, February 9, 2005

134. Pursuit of science: Joy and pride – Fascination and excitements of materials scientist Baldev Raj

Meet the Distinguished Scientist programme to students of X to XII standards of Chennai schools under the auspices of The National Academy of Science, Allahabad (2005)

135. Science and technology of ferrofluids

Baldev Rai

MRSI-ICSC Superconductivity & Materials Science Annual Prize lecture, Pune (2005)

136. Baldev Raj

1st V.S. Jain Memorial Lecture, Indian Society for Nondestructive Testing, Thiruvananthapuram, 2004

137. Robust inspection technology at IGCAR, Kalpakkam

Baldev Raj

Life Time Achievement Award, Indian Society for Nondestructive Testing, December 2004

138. Metallurgy in ancient India

Baldev Rai

Nehru Centre Lecture Series on "Science in India: Past and present", Mumbai, January 4, 2003

139. Radiation Science & Technology

Baldev Raj

Awareness programme on Applications of Radioisotopes and Radiation Technology for Societal Development, Anna University, Chennai, July 13, 2004

140. Lasers for enhancing the domains of analytical and process chemistry (Inaugural) Baldev Raj

Workshop on Lasers in Chemistry & Process, organized by University of Madras under the auspices of the Indian Academy of Sciences, Chennai, January 19, 2004

141. A perspective on heat treatment: Current scenario and future directions

Baldev Rai

Inaugural address: International Heat Treat 2004 Conference & Exhibition, Chennai, January 9, 2004

142. Directions in materials research & engineering

Baldev Raj

Guest of honour lecture, Conference of Research Scholars in Materials Science & Engineering (CRSME 2003), Indian Institute of Technology, Kharagpur, August 20, 2003

143. R&D challenges in the technology of Fast Breeder Reactors for energy security in the country

Baldev Rai, U. Kamachi Mudali and T. Javakumar

Diamond Jubilee Celebration of CSIR, National Metallurgical Laboratory, Jamshedpur, September 1, 2003

144. Pursuit of science & technology: A passion with ethics Teachers Day Celebrations, PSG College of Technology, Coimbatore, September 5, 2003 145. A perspective on measurements in quality management: My experiences Baldev Rai

C.Y. Krishnamurthy Memorial Lecture, National institute for Quality Research, Chennai (2003)

Life sketch and contributions of Dr. Glenn T. Seaborg

Baldev Raj

Presidential address to commemorate the birthday of Dr. Glenn T. Seaborg, Indian Association of Nuclear Chemists and Allied Scientists (IANCAS), Southern Regional Chapter, Kalpakkam, April 21, 2003

147. Welding technology

Baldev Rai

Presidential address, National Welding Seminar, Kolkata, January 23-25, 2003

148. A perspective on energy security strategies for India

Baldev Rai

Technology Day Celebration, Indian Institute of Technology Madras, Chennai, May 11, 2002

149. Experiences in material technology management for fast breeder reactors Baldev Raj

ASM International, Chennai Chapter in association with Indian Society for Nondestructive Testing and Indian Institute of Metals, Chennai Chapters, Chennai, August 31, 2002

150. A perspective on meeting the challenges of sustainable energy security

Engineers Day Celebration, Indian Institute of Technology, Chennai, September 14, 2002

151. Materials research & technology: Issues and directions

Baldev Raj

4th National Symposium on Research Scholars, Indian Institute of Technology, Chennai, September 27-28. 2002

152. A perspective on holistic corrosion management

Baldev Raj

14th Prof. T.L. Ramachandran Memorial Lecture, Electrochemical Society of India, Bangalore, July 19, 2002

153. 112.. Status, challenges & opportunities in NDE science and technology Baldev Rai

Dr. Kishore Kumar Memorial Lecture, Indian Institute of Metls, Baroda Chapter, February 16, 2002

154. Strategy for exploiting relevant science and technology for conservation of heritage objects and monuments

Baldev Raj

Valedictory Address during the International Seminar on "Conservation of Stone Objects With Special Reference to Limestone Objects, 150th Year Celebrations of the Government Museum, Chennai, November 20, 2001

155. Ultrasonics in materials research and applications

Baldev Raj

Presidential Address, X National Seminar on Ultrasonics, Hyderabad, March 15 & 16, 2001

156. Welding technology in nuclear applications

Baldev Rai

Special Guest Lecture on 25th Anniversary of Welding Research Institute, BHEL, Tiruchirapalli, November 29, 2000

157. Intelligent manufacturing of materials

Baldev Raj

33rd Engineer's Day and 139th Birth Anniversary of Sir M. Visveswaraya, the Institute of

Engineers (India), Chennai, September 15, 2000

158. Trends in advanced nondestructive techniques for comprehensive assessment of engineering materials and components

Baldev Rai

Metallurgy & Materials Division Medal 2000, The Institution of Engineers (India), Indian Engineering Congress, Hyderabad

159. Advances in manufacturing technologies Baldev Rai

Prof. T. Ramachandran Endowment Lecture organized by Metallurgical Engineering Association, Karnataka Regional Engineering College, Surathkal, November 8, 2000

Intelligent processing of materials – vision for material manufacturing in 21st century 160. Baldev Rai

Prof. Brahm Prakash Memorial Lecture organized by the Indian Institute of Metals, Trivandrum Chapter, Regional Research Laboratory, January 3, 2000

161. Metallurgy & materials research at Indira Gandhi Centre for Atomic Research, Kalpakkam Baldev Rai

National Metallurgist Day Lecture, 37th National Metallurgists' Day Celebrations organized by the Indian Institute of Metals, Salem Chapter, Salem Steel Plant, December 23, 1999

162. Acoustic emission for materials research in austenitic and ferritic alloys Dr. M.S. Narayanan Memorial Lecture Award, National Symposium on Acoustics (NSA-99),

Acoustical Society of India, Virudhunagar, September 23&24, 1999

163. Challenges in materials development for energy systems Platinum Jubilee Lecture, 83rd Indian Science Congress, Patiala, January 1996

Fresh insights into microstructure, deformation and processes using nondestructive 164. methodologies

Baldev Rai

G.D. Birla Gold Medal Lecture presented at the Golden Jubilee Annual Technical Meeting of The Indian Institute of Metals, New Delhi, November 1996

Presidential address - 14th World Conference on NDT, organized by International 165. Committee

on NDT, New Delhi, December 8-13, 1996

166. A perspective on material characterization for technology advancement and industrial growth -

Emphasis on nondestructive evaluation

Presidential Address - Materials Science Section, 82nd Indian Science Congress, Kolkata, 995. Published as a Special Issue of Bulletin of Materials Science (Presidential Address, Platinum Jubilee and Invited Lectures at the 82nd Indian Science Congress, Kolkata, January 1995 – 19(6) (1996) pp. 839-856

Towards improved reliability of welded structures

Keith Hartley Memorial Lecture, National Welding Seminar, Kolkata, November 1992

Analytical nondestructive evaluation for materials characterization 168.

Baldev Rai

MRSI Medal Lecture - Presented at the Third Annual General Meeting of the Materials Research Society of India, Bangalore, February 9-11, 1992

PLENARY LECTURES

 Interdisciplinary Measurements in a Spectrum of Applications Related to Frontier Technologies Baldev Rai

International Conference on Metals and Materials Research (ICMR 2016), organized by Indian Institute of Metals, Bangalore Chapter & Supported by Materials Engineering, Metal Sciences Division, IISc & Electron Microscope Society of India at Indian Institute of Science, Bangalore, India 21st June 2016

 Corrosion Management in Nuclear Industry: Learning from Experiences Baldev Rai

17th Asian Pacific Corrosion Control Conference (APCCC17), Victor Menezes Convention Centre, IIT Bombay, Mumbai

28th January 2016

3. Integrated Education Policy: Mega successes with academy Industries; A few glimpse Baldev Raj

Plenary Session on the "Role of STI Policy" at 103rd Indian Science Congress – 2016, University of Mysore, Mysore

3rd January 2016

4. Understanding and Applications of Ferrofluids

Baldev Raj and John Philip

Plenary talk at the International Conference on Nanomaterials and Nanotechnology NANO-15, Centre for Nanoscience and Technology, K.S.Rangasamy College of Technology, Tiruchengode, Tamil Nadu, India (in Association World Class University (WCU), GIST, South Korea) 7th December 2015

 Corrosion Mitigation, Monitoring And Inspection Technologies Plenary talk at the Annual Corrosion & Prevention Conference Adelaide Convention Centre, Adelaide, South Australia 17th November 2015

6. A Perspective on Advanced Materials for Energy Systems

Baldev Raj

Plenary Talk: Intl. conf. on Frontiers in Materials Processing, Applications, Research & Technology(FiMPART-2015), Hyderabad

Endorsed by Materials Research Society, Singapore (supported by Springer, ICMCB, MGIT-Hyderabad, CNRS, Conf. Development Centre, Star Alliance)
14th June 2015

7. Energy Sustainability: Emphasis on Changing Demands on Materials Research and Technology in Nuclear Energy

Baldev Raj

International Conference on Advanced Materials and Manufacturing Processes (ICAMPS 2015), Indian Institute of Metals, Trivandrum, 13th May 2015

8. Nuclear Energy After Major Accidents: Economics, Safety, Risk, Scale, Acceptance,... Baldev Rai

Special Lecture on "Global Nuclear Politics and Strategy: Vth Annual Residential Workshop for Young Scholars, International Strategic and Security Studies Programme (ISSSP), NIAS, Bangalore 7 May 2015

9. Child Nurturing and Growth: A sure way to right India

Baldev Raj

79th Indian Montessori Training Courses, Indian Montessori Centre, Bangalore 30 April 2015

 A Perspective and Approaches to Energy Security and Sustainability in India Baldev Rai

Plenary Discussion on Nuclear Energy – The Present and Future for India, International Round Table Conference on "Sustainable Development – New Perspectives and Emerging Trends"-SDNPET-2015, AIMS Institutes, Bangalore

13th February 2015

11. A Perspective on Corrosion Management: Experiences and Challenges Baldev Raj

Plenary lecture for International Conference on Corrosion TECH during CHEMTECH World Expo 2015, Bombay Exhibition Grounds, Mumbai

31st January 2015

12. Plenary Talk: Management of Water Challenges: Opportunities in context of India Baldev Rai

The Second International Conference on Emerging Technologies for Clear Water, IIT Madras, Chennai

23-24 October 2014

13. A perspective on Energy Security and sustainability for India

Baldev Rai

Forty-Seventh Engineer's Day Celebration to commemorate 154th birth anniversary of Dr Sir M Visvesvaraya in "The Institution of Engineers (India), Karnataka State Centre Bangalore, 15th September 2014

14. Science & Technology of Advanced Sodium Cooled Fast Spectrum Reactors in Context of Energy Sustainability in 21st Century

Baldev Raj

Plenary Talk, Council of Academies of Engineering and Technological Sciences; Annual International Conference on Sustainability with Science & Technology, Beijing, China June 2nd-5th, 2014

15. Corrosion Science: Education ,Research & Human Resources

Baldev Raj

Plenary Talk, CORCON -2013, hosted by NACE International Gateway India Section New Delhi, October 2nd,2013

16. Clean Coal technologies Summit, CII, 2013

Baldev Rai

Served in Panel on" International Experiences and Global Perspectives"

Served in Valedictory Panel on "Policy Imperatives: Road Maps to bring out an enabling Policy Framework"

New Delhi, October 11th ,2013

17. Nuclear Energy Today and in the Future

Baldev Raj

Forum for Next Generation Researchers, IV World Materials Summit

Strasbourg, France, EU-Materials Research Society, October 12-13,2013

- Materials and manufacturing for sodium cooled fast breeder and fusion power reactor MRSI, 24th Annual Meeting, IGCAR, Kalpakkam, February 2013
- (Mentor Talk): Materials science & technology, central theme to quality of life National Workshop on Materials Science & Nano technologists organized by PSG College of Technology, February 23rd,2013
- 20. Energy Basket of India: capabilities , challenges and opportunities Contributions by engineers: An approach to National Building, INAE Convention CSIR-CBRI and IIT Roorkee, December 6-7th, 2012
- 21. Nuclear energy and future development

- 9th Science and Technology in Society Forum, October 7-9, 2012, Kyoto, Japan, A forum where most eminent among professionals are invited to give a plenary on their specialization
- Mentor lecture- Frontiers of Imaging in NDE, Workshop on Imaging in NDE, 18th World Conference on NDT, Durban, South Africa, April 2012
- 23. Teaching science: A challenging reward; A programme of atomic energy educational society, Kalpakkam, May 2012
- 24. Building capacity, capability and reputation of research in an eminent educational science and technology institute

HRD Programme of PSG College of Technology, Coimbatore, India Feb 2012

- 25. Innovation as essentials for meeting the challenges; A model ecosystem for engineering Institute
 - CII-South region initiative to ignite engineering students for achieving innovations.
- 26. NDE approaches for enhanced performance and mitigation of risks in demanding technologies Baldev Raj, B. Venkataraman and P. Chellapandi 18th World Conference on Non-Destructive Testing organized under the auspices of International Committee on NDT, Durban, South Africa, April 16-20, 2012
- 27. Nano coatings for high tribological performance 4th International Conference on Nanoscience & Technology (Nano Africa 2012), University of the Free State Bloemfontein, South Africa, April 1-4, 2012
- 28. NDE assessments to ensure performance of cutting edge technologies
 Baldev Raj, Enrich & Excel through NDE (NDE 2011), Indian Society for Non-Destructive Testing,
 Chennai, December 8-10, 2011
- 29. Recent progress of R&D activities on reduced activation ferritic/martensitic steels Q. Huanga, A. Alamob, N. Balucc, Young David, S. Jitsukawae A. Kimura, R.Kurtzg, R. Lindauh, E. Luconi, T. Muroga, Baldev Raj, R.E. Stollern, Lizhen Tan, H. Tanigawa, A.-A.F.Tavassoli, F. Wano and Y.Wua 15th International Conference on Fusion Reactor Materials, Charleston, USA, October 2011
- Energy Materials: Opportunities and Challenges
 49th National Metallurgist Day, Ministry of Steels and Mives, Indian Institute of Metals Nov.2011
- 31. Nano coatings for energy systems Baldev Raj

2nd Trilateral Conference on "Advances in Nano Science - Energy, Water and Healthcare, organized under the auspices of Materials Research Societies of China, India and Singapore, Shanghai, China, November 9-13, 2011

- 32. Health monitoring coupled with asset management for performance and risk assessment of high technology components and systems

 Baldev Raj
 - 19th International Council of Academies for Engineering Technological and Sciences (CAETS) Convocation, Mexico City, Mexico, June 29, 2011
- Current Status of Sodium Cooled Fast Reactors and Fuel Cycle Technologies in India Baldev Raj International Conference on Advances in Power Plants (ICAPP 2011), Nice, France, May 2-5, 2011
- 34. Metal processing technologies for sodium cooled fast spectrum reactors
 Baldev Raj, A.K. Bhaduri and S.Venugopal
 International Conference on World Class Materials and Manufacturing Technologies,

ASM International Pune Chapter, Mumbai, March 8, 2011

35. Pursuit of materials science & technologies to realize successes in advanced fast neutron spectrum reactors

Baldev Rai

Conference on Frontiers of Science, Kolkata, March 2, 2011

36. Energy options & issues: Challenges & opportunities in materials science & technology Baldev Raj

International Seminar on Electromagnetism, Central Glass Ceramic Research Institute, Kolkata, March 1, 2011

37. .Materials challenges for fast reactors

Baldev Rai

2nd International Conference on Advances in Nuclear Materials, Mumbai, February 9, 2011

38. Women in Science: A compelling essentiality for robust sustainable society Baldev Rai and M. Viiavalakshmi

XI All India Meeting of Women in Science ethical Issues – Science & Technology, Indian Women's Scientists Association, New Mumbai, January 28, 2011

39. Pursuit of materials science and technologies to realize successes in advanced fast neutron spectrum reactors

Baldev Rai

Tata Institute of Fundamental Colloquium, Mumbai, January 5, 2011

40. Energy, ethics and equity

Baldev Raj

Special Evening Lecture, International Symposium on Research Scholars (ISRS 2010), Indian Institute of Technology Madras, Chennai, December 22, 2010

41. Integrity assessment of aero structures and the related NDE

Baldev Rai

International Winter School on Advances in Aeronautical Materials and Technologies, Hyderabad, December 18, 2010

42. Sodium cooled fast reactors with closed fuel cycle: Challenges and opportunities to realize mega sustainable energy system

Baldev Rai

Advances in Nuclear Technology (ADNUTECH 2010), Bhabha Atomic Research Centre, Mumbai, December 2-3, 2010

43. Mission 2017: Advanced ultra super critical technology demonstration

Baldev Rai

Clean Coal India 2011, New Delhi, December 7, 2010

44. Materials for manufacturing technologies for sodium cooled fast reactors and associated fuel cycle: Innovations and maturity

Baldev Raj

2nd International Conference on Asian Nuclear Prospects (ANUP 2010), Radison Resort Temple Bay, Mamallapuram, October 11-13, 2010

45. Recent developments of structural welds and pipes for the fast reactor programme in India Baldev Raj and A.K. Bhaduri

63rd Annual Assembly & International Conference of the International Institute of Welding, Istanbul, Turkey, July 11-17, 2010

46. Non-Destructive evaluation – Status, directions, innovations and challenges - A case study:IGCAR Baldev Raj

20th Annual Conference of Indian Nuclear Society (INSAC-2009) organized by Indira Gandhi Centre for Atomic Research and Bharatiya Nabhikiya Nigam Ltd. and supported by Board of Research in Nuclear Sciences, Department of Atomic Research, Chennai, January 6, 2010

47. Materials, manufacturing and inspection technologies for back end fuel cycle of sodium cooled fast reactors

Baldev Rai

GLOBAL 2009 International Conference on The Nuclear Fuel Cycle: Sustainable Options & Industrial Perspectives, Paris, France, September 5-12, 2009

48. Status of sodium cooled fast reactors and associated fuel cycle technologies in India in the context of energy security and sustainability

Baldev Rai

International Workshop on Asian Nuclear Prospects, Kobe, Japan, October 19-22, 2008

49. Current status and future directions on the role of NDE in enhancing economics and safety of nuclear energy as a sustainable option Baldev Rai

17th World Conference on Non-Destructive Testing, Shanghai, China, October 25-28, 2008

50. Reactor physics and safety aspects of fast neutron reactors with associated fuel cycle Baldev Raj and P. Mohanakrishna

International Conference on the Physics of Reactors - "Nuclear Power: A Sustainable Resource", Interlaken, Switzerland, September 14-19, 2008

51. A comprehensive perspective on plutonium fuels for sodium cooled fast breeders Baldev Rai

Plutonium Futures - The Sciences 2008, Dijon, France, July 7-11, 2008

52. R&D facilities for the development of nuclear energy in India

Baldev Raj

International Conference on Nuclear Fuel Cycles for a Sustainable Future (ATLANTE 2008), Montpillier, France, May 19-23, 2008

53. Current status of fast reactor and associated fuel cycle technology in the context of energy security and international developments

Baldev Rai

IIT Kanpur REACH Symposium, Khajuraho, March 15-18, 2008

54. Indo-Brazil-South Africa (IBSA) Nanotechnology initiative – A case study of effective cooperation Baldev Rai

3rd International Dialogue on Responsible R&D of Nanotechnology, European Commission, Brussels, Belgium, March 11&12, 2008

55. Steel research and development for nuclear technology in India

Baldev Raj and K. Bhanu Sankara Rao

13th International Conference on Fusion Reactor Materials, Nice, France, December 10-14, 2007

56. Development of NDE techniques for monitoring and evaluation of forging processes and products Baldev Raj and T. Jayakumar

ASPF 2007, National Physical Laboratory, New Delhi, November 5-6, 2007

57. Status of sodium cooled fast reactors with closed fuel cycle in India Baldev Rai

International Congress on Advances in Nuclear Power Plants (ICAPP 2007), Nice, France, May 13-18, 2007

58. Science & Technology: A passionate career of high relevance to society

DAE Anu Week Celebrations, Vellore Institute of Technology, Vellore, February 13, 2007

59. Materials development and related issues in closed fuel cycle with fast breeder reactors Baldev Rai

International Conference on Advances in Nuclear Materials, Mumbai, December 12-14, 2006

60. Science to technology: A perspective on holistic corrosion management Baldev Rai

International Conference on Corrosion (CORCON 2005), Chennai, November 28-30, 2005

61. R&D to achieve 200 GWd/t burn-up in fast reactor fuels

Baldev Raj

International Conference on Characterization & Quality Control of Nuclear Fuels, Hyderabad, November 9-11, 2005

62. Pursuit of science & technology of NDT in India

Baldev Rai

National Seminar on NDT & E (NDE-2005), Kolkata, December 2, 2005

63. Prospect on the projected quantities of nuclear systems in the future Baldev Rai

GLOBAL 2005, Tokyo, Japan, October 2005

64. Indian Nuclear research activities in the context of nuclear energy growth scenario Baldev Raj

GLOBAL 2005, Tokyo, Japan, October 2005

65. Safety of nuclear fuel cycle technology

Baldev Rai

Consultancy Meeting, International Atomic Energy Agency, Vienna, September 2005

66. Frontiers in NDE research nearing maturity for exploitation to ensure structural integrity of pressure retaining components

Baldev Rai

8th International Conference on Operating Pressure Equipment (OPE-8) & Exhibition, Melbourne, Australia, April 20-25, 2005

67. Surface alloying of nitrogen to improve corrosion resistance of steels and stainless steels U. Kamachi Mudali, H.S. Khatak, Baldev Raj and M. Uhlemann International Workshop on High Nitrogen Steels, The Netherlands (2003)

68. Advanced NDE techniques towards assessment of remaining life of aged components Baldev Raj, T. Jayakumar and B.P.C. Rao

Workshop on RLA, National Metallurgical Laboratory, Jamshedpur, January * & 9, 2003

69. Techniques for assessment of concrete structures-Research and development

Baldev Raj, T. Jayakumar and B.P.C. Rao INAE National Seminar on "Engineering Building Materials and their Performance", Indian Institute

70. Role of NDE in industries

Baldev Raj

Course on Advanced Methods in Nondestructive Evaluation, Centre for Nondestructive Evaluation, Indian Institute of Technology Madras, Chennai, December 16-20, 2002

71. Online monitoring of Zirconium alloy components of pressurized heavy water reactors by advanced NDE technologies

Baldev Raj, P. Kalyanasundaram and B. Venkataraman

of Technology Powai, Mumbai, January 17 & 18, 2003

Symposium on Zirconium 2002 (ZirC-2002), Bhabha Atomic Research Centre, Mumbai, September 11-13, 2002

72. Comprehensive evaluation of microstructures and damage by nondestructive methods Baldev Rai

International Symposium on Materials Ageing and Life Management, Kalpakkam, India, October 3-6, 2000

 NDE for realizing better quality of life in the context of India – An emerging economy Baldev Rai

15th World Conference on NDT, Rome, Italy, October 15-21, 2000

74. A perspective on emerging opportunities in neutron radiography application Baldev Rai

National Workshop on Utilization of KAMINI Reactor, IGCAR, Kalpakkam, organized by BRNS, AERB and IUC-DAEF, August 30 to September 4, 1999

75. Engineering approach to corrosion management

Baldev Rai and Geogy George

Corrosion Management Course, Ooty, June 28-30, 1999

76. Reliability of quality through intelligent welding methodologies

Baldev Rai

IMACS/IEEE CSCC-99, Athens, Greece, 1999

77. NDE characterization of Sangam and Roman coins

Annual Meeting of South Numismatic Society, Kanyakumari, February 1998

78. Training and certification in India – An overview

Baldev Raj, B. Venkataraman and V.A. Chandramouli

National Seminar on Nondestructive Evaluation (NDE-98) – The Indian Scenario and Challenges Ahead, Trivandrum, December 10-12, 1998

79. Status of NDE research and applications for life management of nuclear power plants in India Baldev Raj, M.T. Shyamsunder and T. Jayakumar

24th MAP-Stuttgart Seminar on Safety and Reliability of Plant Technology, Stuttgart, Germany, October 7-9, 1998

 Recent developments in the use of nondestructive testing technique for monitoring industrial corrosion

Baldev Rai

International Conference on Corrosion and its Control, Indian Institute of Technology, Mumbai, December 3-6, 1997

81. R&D in NDE for life management of engineering components

Baldev Raj

National Seminar on NDE and Life Extension of Engineering Components, DE-97, Hyderabad, 1997

82. NDE to enhance competitiveness of the Indian chemical industry

Baldev Rai

Workshop on DAE Technologies, Institution of Chemical Engineers, Kolkata, February 1997

83. Nuclear methods for material diagnosis

Baldev Raj

On the occasion of the 40th Anniversary of MSIA SPECTRUM, Moscow, the International Conference on NDT in Russia, organized by the Russian Academy of Sciences, Moscow, Russia, June 1996

84. Demodulated autocorrelogram pattern recognition (PR) – A universal PR tool for NDT Baldey Rai

8th Asia-Pacific Conference on NDT, Taipei, Taiwan, December 1995

85. Eddy current testing of fast breeder reactor fuel cladding tubes

Baldev Raj

Proc. 6th European Conference on NDT, NICE, France, October 1994

86. Status of NDE research and applications in India

Baldev Raj Proc. 7th Asia-Pacific Conference on NDT, Shanghai, China, October 1993

87. Reliable solutions to engineering problems in testing through acoustic signal analysis Baldev Raj

13th World Conference on Nondestructive Testing, Sao Paulo, Brazil, October 18-23, 1992

88. NDE - Current national status and priorities

Baldev Raj

National Seminar on Application of Advanced Technology in the Field of Testing and Evaluation of Materials, Platinum Jubilee Session of National Test House, Kolkata, November 1988

KEY NOTE LECTURES

1. Changing Paradigms in Security: Defining Collaborations

Workshop on India-US Cooperation on Global Security: Dialogue on Strategic Security Threats of the 21st Century, NIAS- CISAC meeting

5 October 2016

2. Frontiers of Research: Imaging in Non Destructive Evaluation

Baldev Rai

Inaugural Keynote Address: A Week Summer School on NDTE-Perspectives on Imaging, M. S. Ramaiah Institute of Technology (MSRIT). Bangalore 11th July 2016

3. Non Destructive Evaluation for Understanding Defects, Microstructures and Stresses for Asset Management

Baldev Rai

First Structural Integrity Conference and Exhibition (SICE-2016) organized by Indian Structural Integrity Society (InSIS) along with Indian Institute of Science, Bangalore and Indian Institute of Technology Madras, Chennai, 5th July 2016

4. Current Status and Future Directions of Welding Science and Technology: Indian Context Baldev Rai

Golden Jubilee Celebrations of IIW-India, Kolkata 26 April 2016

- 5. Keynote at the Symposium on "Welding for Nation Building" at Golden Jubilee Celebration of IIW-India, The Stadel, Salt Lake, Kolkata 22 April 2016
- 6. Keynote address at the Two-Day Workshop on "Explosive Detection Technologies" Baldev Rai

Victor Menezes Convention Centre (VMCC), Lecture Hall No. 21, IIT-Bombay 22nd February 2016

7. Residual Stresses: Mechanisms, Measurements and Solutions Baldev Rai

Keynote Address at the All India Seminar on "Residual Stress: Key Challenges and Remedies", The Institution of Engineers (India), Karnataka State Centre; National Design and Research Foundation & Central Power Research Institute, Bangalore 21 January 2016

8. Life Cycle Management of Structural Components of Reactors and Reprocessing Plants Baldev Raj

Keynote talk at the Fourth International Conference on "Through-Life Engineering Services (TESConf2015)", Cranfield University, UK

3 November 2015

9. Brain Storming Session on Accelerated Nuclear Energy in India between INAE and DAE, Nuclear Power Corporation of India, Mumbai

7th September 2015

10. Energy Security: Foresight and Technologies

Baldev Rai

Engineers' Conclave (EC 2015), Nabhiklya Uria Bhawan, Anushaktinagar, Mumbai Organized by Indian National Academy of Engineering (INAE) & Bhabha Atomic Research Centre

7th September 2015

11. India: Reality and Aspiration

Baldev Rai

Chief Guest and Prize Distribution Function at Clarence High School, Bangalore

4 July 2015

12. Keynote address at Motorola Scholar Awards (2014-15) Programme, Foundation for Advancement of Education and Research, MS Ramaiah Institute of Technology, Bengalore 30 June 2015

13. Keynote address at NRDC Prize Award Ceremony and Conference on "Make in India: Opportunities through Innovation" PSG College of Technology, Coimbatore 25 February 2015

14. India's Asian Order: Culture, Economy and Security

Baldev Raj

International Conference on India's Asian Order: Culture, Economy and Security, Dept. of Civics and Politics, Univ. of Mumbai, Mumbai

8 December 2014

15. Frontiers of casting science and Technology

Baldev Rai

VII National Foundry Conclave, Hotel Le Meridien, Coimbatore organized by Confederation of Indian Industry (CII) Southern Region; (Session 1: In Pursuit of knowledge) 27 November 2014

 A Perspective on Tailoring Surfaces for Corrosion Mitigation and Performance Baldev Raj

International Conference on Pump, Values, Surfaces and Coatings Confederation of Indian Industries, Chennai, July 4th-6th,2014

17. Energy Solutions with Unmanned Autonomous Vehicles

Baldev Raj

TEQUIP-2, PSG College of Technology

Coimbatore 28th April,2014

18. World Looks up to Material Scientists and Technologists to Solve Challenges Facing Mankind Baldev Raj

National Workshop on Recent Trends in Materials Science, Nanoscience and Nanotechnology Department of Applied Science, PSG College of Technology, Coimbatore, February 22nd, 2014

19. Engineering Innovations: Enablers and Ecosystems. Launch of Manufacturing Focused Technology Services Portal

Baldev Raj

Department of Science and Industrial Research & National Manufacturing Competitiveness Council, National Conference on Acceleration Technology Innovation for Inclusive and Growth

New Delhi, November 7th, 2013

20. Automation in Welding: Emerging Directions

Baldev Rai

International Conference on Automation in Welding, Organized by International Institute of Welding Essen, Germany, September, 10th -17th, 2013

21. Science, technology, ethics and society

Baldev Raj

Management Students from Germany & India

PSG Institute of Management, August 2013

22. Identify the young minds to take a progress in corrosion mitigation and take a progress in surface engineering →pathway to sustainability amidst challenges

Baldev Rai

Chair Panel of International Experts during International Conference on Heat Treatment and Surface Engineering, ASM Chennai, 2013

23. India study abroad program (2013), multidiscipline students of San Diego University, USA Baldev Raj

Nuclear Power In India, January 9, 2013

24. Technology Foresight for leaders in Technology Management Energy Security and Sustainability in the Context of India: Technology Foresight National Institute of Advanced Science & Department of Science and Technology, Bangalore, December 17, 2012

25. Industry Distinguished Collaboration: National and Global Challenges, Realising synergy of interdisplinarity to grow future technologies

Baldev Rai

CEO and Senior team of R&D Leaders during the Annual Review of *Tata Consultancy Services*, Corporate Office, Mumbai, 21 October 2014

- 26. Materials Science Research by Doctoral Students: Opportunities and approaches International Symposium of Research scholars organized by IIT Madras, Indian National Academy of Engineering and Indian Institute of Metals, December 13, 2012, IIT, Madras
- 27. Capacity, capability, commitment and ecosystem for excellence in management Consulting Valedictory Keynote Address: Management Consulting by Directorate of Industrial and Scientific Research and PSG College of Technology, December 15th, 2012
- 28. Keynote address at the Research Carnival at the students Research Council of PSG College of Technology, Coimbatore, January 4th ,2012
- 29. A perspective on system approach to nuclear security India-US cooperation on global security: a workshop on technical aspects of civilian nuclear security; specialist talk US National Academies of Science and the National Institute of Advanced Studies, Bangalore October 29-31, 2012
- 30. Defining specialization in the context of National Challenges Baldev Raj

Science Teachers Programme of Department of Science and Technology, Pollachi, Tamilnadu, May 2012

31. NDE measurements for understanding of performance. A few case studies on Engineering components, human health and cultural heritage.

Baldev Raj

39th Annual Review of progress in Quantitative Nondestructive evaluation (QNDE), Denver, July 16th, 2012

32. Recent trends in science and technology of nondestructive evaluation, innovation and opportunities Baldev Raj

Singapore International Conference on Nondestructive Testing and NDT Expo, Singapore, November 3&4, 2011

33. Overview: Region & Challenges Baldev Raj

6th Asian Pacific IIW International Congress and 6th WTIA Annual Conference on Improving Quality of Life through Welding, Cairns, Australia, September 25-27, 2011

- 34. Materials science & technology: A key driver in achieving judicious energy mix, demands and security, INAE-ASTE Workshop on Energy Efficiency, New Delhi, April 11, 2011
- 35. .Role of materials science technology drivers in achieving energy security Baldev Raj

Seminar on Energy Options for India, Indian Institute of Chemical Engineers & Asian and Mideast Institute of Chemists, Mumbai, March 19, 2011

36. Challenges of managing mega projects under Indian conditions

Baldev Rai

Course for Senior Executives, National Institute of Advanced Scientific Research, Bangalore, January 8, 2011

37. Safety of sodium cooled fast reactors: An Indian perspective Baldev Rai

Third International Consulting Meeting on Harmonization of Safety Aspects of SFR towards global deployment, Tokyo, Japan, September 9-10, 2010

38. Development of materials and manufacturing technologies for Indian Fast Reactor Programme T. Jayakumar, A.K. Bhaduri and Baldev Raj

9th Liege Conference on "Materials for Advanced Power Engineering", Liege, Belgium, September 27-29, 2010

39. Scientific approach to demanding corrosion management issues in nuclear industry Baldev Raj

Special address, CORCON 2009, NACE International Gateway of India Section, Mumbai, October 1, 2009

40. Advanced NDE for pressure vessels and piping

Baldev Raj

9th International Conference & Exhibition 2009 on Operating Pressure Equipment Incorporating The AINDT Bielnnial Conference organized by The Institute of Materials Engineering, WTIA And AINDT, Queensland, Australia, August 26-28, 2009

41. Nuclear Energy and the Case of Fast Breeder Reactors

Baldev Raj

International Conerence on "India and Energy" organized by the Centre of Geopolitics of Energy and Raw Materials (CGEMP), University of Dauphine, Paris, June 18 & 19, 2009

42. India on the rise: Sustainable energy needs and strategies for the nuclear energy Baldev Rai

Discussion Meeting on 'Matrials – Quo Vadis", Centenary Celebration of Indian Institute of Science, Bangalore, December 12, 2008

43. Realization of fast breeder reactor technology in India

Baldev Raj

Indian Nuclear Society Conference on "Nuclear Technology – Role of Industry", Mumbai, November 25, 2008.

44. Corrosion management strategies and successes in fast breeder reactor programme Baldev Raj and U. Kamachi Mudali

International Workshop on Corrosion Engineering and Mitigation, NACE International India Section, Defence Institute of Armament Technology, Pune, November 7, 2008

45. Materials Challenges in Nuclear Energy

Baldev Rai

International Conference on Electronic Materials organized by International Union of Materials Research Society, Sydney, Australia, July 28 to August 1, 2008

46. Information assurance in 21st Centry: Making it happen

Baldev Raj

Address delivered during the 4th Indo-Australian Conference on IT Security (IACITS 2008), Central University, Pondicherry, March 25, 2008

47. A perspective on engineering manufacturing

Baldev Raj

INAE-DAE International Conference on Advances in Manufacturing Technology for Young Engineers, Indian Institute of Technology Madras, Chennai, February 6-8, 2008

48. 27. Building on Knowledge-base on Sodium Cooled Fast Breeder Reactors to Develop

Materials Technology for Fusion Reactors

Baldev Rai

13th International Conference on Fusion Reactor Materials, Nice, France, December 10-14, 2007

 Research and applications of acoustics: Materials – engineering – healthcare – culture Baldev Rai

National Seminar on Acosutics, K.S. Rangasamy College of Technology, Tiruchengode, December 5, 2007

50. Knowledge management in a nuclear research Centre

Baldev Raj and S.A.V. Satya Murthy

International Conference on Knowledge Management in Nuclear Facilities, Vienna, June 18-21, 2007

51. Frontiers of Research in NDE

Baldev Rai

12th Asia-Pacific Conference on Nondestructive Testing, Auckland, New Zealand, November 5-10, 2006

52. Nuclear Science: A fascinating career to serve society

Baldev Raj

Wokshop on Research and Career Opportunities for Physicists and Chemists, Qunne Mary's College, Chennai, January 30, 2007

53. A perspective on FBR programme in India

Baldev Rai

2nd IIT-European Union Alumni Conference, Paris, France, May 11, 2006

54. Reliable and relevant non-destructive measurements for robust technologies Baldev Rai and B. Venkataraman

12th Asia Pacific Conference on NDT, Auckland, New Zealand, November 5-10, 2006 Selected for publishing in NDT.net Database, Rolf Diederichs (Editor))

55. Simulation, modeling and monitoring of materials, microstructure and defects for high Performance components

Baldev Raj

International Conference on Recent Advances in Materials and Processing (RAMP 2006), PSG College of Technology, Coimbatore, December 15-16, 2006

56. Comprehensive characterization of ageing behaviour in M250 maraging steel using multi-NDE techniques

K.V. Rajkumar, Anish Kumar, T. Jayakumar, S. Vaidyanathan, S. Mahadevan, B. Sasi, G. Amarendra, Baldev Raj and K.K. Ray

9th European Conference on Non-Destructive Testing, Berlin, Germany, September 25-29, 2006

57. Characterization of microstructures with linkages to performance by NDE methodologies Baldev Raj

Indo-US Workshop on Recent Advances in Microstructures/Textures/Property Relations in Close Packed Metals, Visakhapatnam, December 28-30, 2005

58. A voyage to the exciting research & application in engineering and medicine of infrared techniques and technologies

Baldev Rai

Workshop on NDE of Imaging Techniques in Medicine and Industry, Indian Society for Nondestructive Testing, Kolkata, December 1, 2005

59. . perspective on fast reactor fuel cycle in India

Baldev Raj, H.S. Kamath, R. Natarajan and P.R. Vasudeva Rao

First COE-INES International Symposium (INES-1) on Innovative Nuclear Energy Systems for Sustainable Development of the World, Tokyo, Japan, October 31 to November 4, 2004.

60. NDE in manufacturing and life management

Baldev Raj and T. Jayakumar

AICTE-ISTE sponsored short term course on advances in Nondestructive Testing, NIT, Karnataka, Surathkal, June 30 to July 12, 2003

61. Mechanical properties and nondestructive evaluation of chromium-molybdenum ferritic steels For steam generator application

Baldev Raj and B.K. Choudhary, 7th International Conference on Operating Pressure Equipment (OPE-7), Melbourne, Australia, April 2-4, 2003

62. Microstructure driven process modeling

Baldev Raj, P.V. Sivaprasad and S. Venugopal

International Conference on Digital Aided Modeling and Simulation, Coimbatore Institute of Technology, Coimbatore, January 6-8, 2003

63. Nondestructive evaluation to enable comprehensive failure analysis and ensure structural integrity of engineering components

Baldev Rai

International Conference on Failure Analysis, Australia, November 2002

64. Current status of FBR science & technology in India

Baldev Rai

Indian Institute of Metals during Council of National Technology Day, Chennai, May 2002

65. Welding and NDE: Inter-twinned technologies

Baldev Raj

4th National Seminar on Research Scholars, Indian Institute of Technology Madras, Chennai, September 2002

66. Fracture mechanics and NDE – A robust approach to ensure structural integrity Baldev Rai

One day Workshop on Fracture Mechanics & Nondestructive Evaluation, Mumbai, May 18, 2002

67. Materials & characterization

Baldev Raj

Training Workshop on Materials Processing, Characterization and Testing of Industrial Quality Control, National Research & Technology Consortium, Parwanoo, March 20-24, 2002

68. Advances in Nde techniques for inservice inspection

Baldev Raj, T. Jayakumar and B.P.C. Rao

Workshop on Inservice Inspection of Nuclear Power Plants, Kalpakkam, January 22-24, 2002

69. KAMINI – A versatile tool for radiography and activation analysis

Baldev Raj

International Seminar on Application of Radioisotopes and Radiation Technology in the 21st Century, December 12-14, 2001, Mumbai

70. Creep and fatigue of high temperature materials, An overview

Baldev Raj and K. Bhanu Sankara Rao

Short Term QIP course on Creep, Fatigue and Fracture of Materials and Industrial Components, Indian Institute of Technology Madras, Chennai, December 3, 2001

71. A perspective on developments in NDE to enable safe and reliable nuclear power industry Baldev Raj and T. Jayakumar

10th Asia-Pacific Conference on Nondestructive Testing, Brisbane, Australia, September 17-21, 2001

72. Meeting the challenges in NDE research and applications

Baldev Raj

Engineering Materials 2001 Conference, Melbourne, Australia, September 24-26, 2001

73. Advances in nondestructive techniques to evaluate weld quality

Baldev Raj and A.K. Bhaduri

ISTE Summer School on Recent Developments in Materials Joining, Annamalai University, Chidambaram, May 28 to June 8, 2001

74. Indian nuclear energy programme: R&D in materials

Baldev Raj

AICTE-ISTE Sponsored Short Term Training Programme on Intelligent Materials for the New Millennium, Pondicherry EngineeringCollege, May 21, 2001

75. Science-Industry interaction for the effective corrosion management

Baldev Raj

Corrosion Management Course, Ooty, June 28-30, 1999

76. Status of micromagnetic NDE methods for ferromagnetic materials characterization, testing and evaluation

V. Moorthy, Baldev Raj and T. Jayakumar

Germany-India-Russia Workshop on Magnetic Methods for NDT, Ekaterinburg, Russia, June 14-17, 1999

77. .Application of intelligent processing of materials

Baldev Raj

National Seminar on NDT in Steel and Allied Industries, National Metallurgical Laboratory, Jamshedpur, April 2-4, 1998

78. Application of microscopy to challenging problems in materials science and engineering Baldev Rai

National Symposium on One Hundred Years of Electron Discovery, Kuvempu University, Shankaraghatta, December 29-30, 1997

79. Application of new developments in testing & evaluation to quality management of welded components

Baldev Rai

Course on Welding Metallurgy, Processes and Quality, Nuclear Fuel Complex, Hyderabad, July 22-23, 1997

80. Acoustic emission in materials research – Current status and future directions Baldev Rai

AEWG(I) Workshop on Acoustic Emission, Bhabha Atomic Research Centre, Mumbai, August 22-23, 1997

81. Trends in quality management and fresh insight into technology of heat exchangers through failure investigations

Baldev Raj, K.V. Kasiviswanathan and T. Jayakumar

Third National Alexandria Conference on Heat Exchangers, Boilers and Pressure Vessels, Montazah

Sheraton Hotel, Alexandria, Egypt, April 5-6, 1997

82. Challenges and opportunities for academicians towards total quality management in Indian industry Baldev Raj

Seminar on Role of Academicians in Quality Improvement of Industries, Osmania University and Indian Society of Technical Education, Hyderabad, February 23, 1997

83. Status of NDT in India

Baldev Raj, K.V. Kasiviswanathan and C.G. Krishnan Nair 60th Anniversary Conference of the Chinese Mechanical Engineering Society, Beijing, China, September 1996

Development of inservice inspection technique for nuclear power plants in India
 Rodriguez and Baldev Raj
 International Conference on Pipes and Pressure Vessels, Singapore, February 1-2, 1996

85. Exploring the horizons for condition monitoring of operating plants

P. Rodriguez and Baldev Raj

International Conference on Maintenance, Inspection, Corrosion, Metallurgy and Plant Reliability (MICMAP-96), Baroda, January 1996

86. Corrosion monitoring and role of NDT

Baldev Raj

Seminar on Technological Frontiers in Corrosion Monitoring and Mitigation, Bombay, November 1994

87. Neutron radiography and gauging - An overview

Baldev Rai

First National Workshop on Neutron Radiography and Gauging, SHAR Centre, Sriharikotta, March 25, 1994

88. Image analysis and microstructures in nondestructive evaluation

Baldev Raj and C. Babu Rao

IAEA Regional Workshop on Image Processing in Materials Science and NDT, BARC, Bombay, January 1992

89. Emerging technology in NDE of weldments - Status in India

Baldev Rai

International Symposium on Joining of Metls (SOJOM-91), Trichy

90. Nondestructive evaluation for the 1990's

Baldev Raj and D.K. Bhattacharva

National Seminar on NDE for Increased Reliability, Productivity, Hyderabad, April 1990

91. Development in NDT and condition monitoring for improving plant reliability and durability Baldev Rai

National Seminar on Maintenance and Productivity, NPC, New Delhi, February 1990

92. Role of NDE in maintenance engineering

Baldev Raj

Workshop on Maintenance Engineering, Indian Institute of Technology, Delhi, November 1988

93. NDT methods to assess damage in materials and components

Baldev Rai

National Seminar on Advances in Repair Technology, NPC, New Delhi, January 1988

94. .Status of acoustic emission for condition monitoring

Baldev Raj

Seminar on Advances in NDT Techniques and Instrumentation, Baroda, January 1988

95. Status of ultrasonic testing and evaluation

Baldev Raj

National Seminar on Acoustics, Trichy, December 1987

96. An overview of the status in testing and control of welds – Report from commission V of International Institute of Welding

Baldev Raj, D.K. Bhattacharya and C.V. Subramanian

International Welding Conference, BHEL, New Delhi, 1987

97. Radiography in nondestructive evaluation

Baldev Rai

National Symposium on Radiations in Health, Environment and Industry, DRDL, Jodhpur, April 1987

98. Frontiers of NDE research at IGCAR, Kalpakkam

National Seminar on NDT, Vikram Sarabhai Space Centre, Trivandrum, December 1986

- 99. Nondestructive evaluation for materials research, quality and reliability in nuclear industry Baldev Raj and C.V. Sundaram
 National Seminar on NDE in Engineering Industry, ISNT Coimbatore, May 196
- 100. Perspective on the fast reactor fuel cycle
 C.V. Sundaram and Baldev Raj
 Seminar on Fast Reactor Fuel Cycle, Kalpakkam, February 1986

INVITED LECTURES

 Address at the One day Consultation Future of the River Basin: Looking beyond Cauvery, NIAS, Bangalore

17th November 2016

2. Talk at Workshop on Unmanned Aerial Systems for Governance Karnataka Jnana Aayoga (Karnataka Knowledge Commission), Bangalore 27 October 2016

3. Proposed Network for Future of Manufacturing

Roundtable Meeting on the Future of Manufacturing, National Institute of Advanced Studies, Bangalore

22nd October 2016

 Talk at Empereal-KDDS Renewable Energy PVT Ltd, Coimbatore 13 October 2016

5. Transitioning to Lower carbon economy: Technology and Engineering Considerations in Building and Transportation Sectors

CATES Council Meeting

Royal Academy of Engineering, London, UK

15th September 2016

 Talk delivered at Inaugural Session of EEETech 2016 - Technical Conference and Exposition on Energy Efficiency, Environment and Technology, India Habitat Centre, Lodi Road, New Delhi Organized by Confederation of Indian Industry, Chandigarh 1st September 2016

7. Materials for Strategic Sectors: A Perspective Indian School of Mines, Dhanbad

17th Agust 2016

 Materials for Strategic Sectors: A Perspective Workshop on "Strategies for Strategic Materials", MECON Limited, Ranchi 12th August 2016

9. Chief guest and Inaugural talk at the First year Under Graduate Programs at Reva University, Bangalore

10 August 2016

10. Realizing Design Success in Challenging Technologies

Workshop on "CII-IISc Designing New Products Through Research Innovation (DCODE)", Centre for Product Design and Manufacturing (CPDM), Indian Institute of Science, Bangalore 27th July 2016

11. Science based Technology in Context of Aspiring India

Talk at Graduation Function, Raja Ramanna Centre for Advanced Technology, Indore 23 July 2016

12. Visible and sublime outcomes, transforming Bangalore

Workshop on Bangalore's 'Great Transformation': Land, Ecologies, Economies, Communities, 24 June 2016, NIAS, Bangalore

13. Advanced Materials Research in Manufacturing

Workshop on Advanced Manufacturing Technologies in Defence Sector

National Institute of Advanced Studies, Bangalroe

18 June 2016

 Interlinked ecosystems of innovations, vocation, education, innovations and pursuit of profession, Welcome address at the Two day National Consultative Meet on Vocational (Skill), Technical and Higher Education, NIAS, Bangalore
 June 2016

15. Conflicts resolution: A multidiscipline dialogue with armed visible sublime outcomes A discussion meeting on Armed conflict, peace audit and early warning-Decennial Review 2016, National Institute of Advanced Studies, Bangalore 9 June 2016

16. Energy, Ethics and Equity

Nightingales Elders Enrichment Centre, Malleswaram, Bangalore 20th May 2016

 Fun of Doing Science: Make Earth a Better Planet Woodstock School, Mussoorie 18th April 2016

- 18. Professional Societies Contribution to Strengthening the Indian Accreditation System Interaction Session with the Accreditation Delegation from The Institution of Engineering and Technology, UK, The Institution of Engineers (India), Karnataka State Centre, Bengaluru
- Energy Foresights, Security and Sustainability Baldev Rai

NIAS-DST Training Programme on "Science Policy and General Management" 29th February 2016

- 20. Inaugural Address at the Workshop on Advanced NDE Techniques, Indian Institute of Technology Madras, Chennai, 24 February 2016
- 21. Role of today's Institutions and Organisations in Specific Learning Difficulty (SLD) Baldev Rai

Felicitation Ceremony of the Specific Learning Difficulty: train the Trainers-A Certificate Programme, Christ University co-organized by Times Foundation (The Times group) 20 February 2016

22. Fun of Doing Science: Make Earth a Better Planet

Baldev Rai

NIAS Course for ISHAN VIKAS – UDHAN programme (Sponsored by Ministry of human resource development government of India)

25 December 2015

23. Successful globalization case studies in strategic sectors

Forum for Global Knowledge Sharing, 10th Annual Conference on "Technology, Growth and Sustainability", NIAS (organized by Knowledge Forum, Bangalore) 27 November 2015

24. Energy Security: Foresight and Technologies

Baldev Raj

The Thirteenth Annual NIAS-DST Training Programme on Multidisciplinary Perspectives on Science, Technology and Society; Core Theme: Energy Security and Management 10 August 2015

25. Aspiring Scientists in Aspiring India

Inaugural address at INSPIRE Internship Camp-2015, Centre for Nanoscience and Technology, Tiruchengode (Organized by Dept. of S&T, Govt. of India) 5 August 2015

26. Science is Fun: Service to Society is Accomplishment

Interactive session: INSPIRE Internship Camp-2015, Centre for Nanoscience and Technology, Tiruchengode (Organized by Dept. of S&T, Govt. of India)

Challenges and opportunities to realizing India of my Dreams
 Address at Freshers' Day Funcation, Atria Institute of Technology, Bangalore
 3 August 2015

28. Welcome address at the "Consultative Workshop on "Future of Education: The Schools of the Future", National Institute of Advanced Studies (NIAS), Bangalore (co-organizers Future Agenda, Karnataka Knowledge Commission, TCS) 29 July, 2015

- 29. Welcome address at the Conference on "Myanmar at the Crossroads: Current Realities, Challenges and Opportunities, ISSSP Unit, NIAS 20th July 2015
- Technology, Ethics, Equity and Sustainability Atomic Energy Retired Officers' Association, Annual General Body Meeting, Bangalore 18th July 2015
- Inaugural address the 1st Quantitative Infrared Thermography Asia Conference (QIRT-Asia 2015) at Radisson Blu, Mahabalipuram (organized by IGCAR)
 June 2015
- Energy Security and Sustainability: Approaches and Priorities for Growing and Aspiring India Baldev Raj Institute of Nano Science & Technology, Punjab

27 March 2015

33. Advanced Materials and Technologies

Baldev Raj

Colloquium Talk, Indian Institute of Science Education and Research (IISER), Mohali 27 March 2015

34. Energy Security and Sustainability: Approaches and Priorities for Growing and Aspiring India Baldev Rai

Research Scholars Day, IIT Madras, Chennai 13 March 2015

35. Approaches to prioritise application and leadership in Unmanned Aerial Systems Baldev Rai

Round Table meeting on Civilian Applications of Unmanned Aerial Systems, International Institute for Aerospace Engineering & Management, Jain University, Bangalore 7 March 2015

36. A Perspective and Approaches to Energy Security and Sustainability in India Baldev Raj

International Conference on "Sustainable Development – New Perspectives and Emerging Trends". IMS Centre for Sustainability (ACS) under the aegis of Acharya Institute of Management and Sciences (AIMS).

3th February, 2015.

37. Challenging Inequalities: A holistic Aspiration and Topological Map Baldev Rai

IC4HD (International Centre for Human Development)-NIAS Round Table-Addressing Economic inequality In India 8 January 2015

38. Inaugural Address: Science is Fun: Service to Society is Accomplishment Dr Baldev Raj

NIAS Course for Ishan Vikas - Udhan Programme (Sponsored by Ministry of Human Resource

Development, GOI)

22 December 2014

39. Approaches of education and informal mechanism for skill development

Dr Baldev Rai

National Level Consultation on Skill Development, Employment and Mobility in India

22 December 2014

40. Policy for science and science for policy: A perspective scalable and sustainable as a few examples of successes

Baldev Rai

NIAS-DST Training Programme on "Policy for Science and Science for Policies"

19 December 2014

41. National Energy Perspective

Baldev Raj

The Twelfth Annual NIAS-DST Training Programme on Multidisciplinary Perspectives on Science, Technology and Society (Core Theme: Energy Security and Management), NIAS, Bangalore 10 November 2014

42. A perspective on S&T frontiers, standardization efforts and management of national GIS (ORAL)

Baldev Raj

Consultation Meeting on Standards and Foundation Dataset for National GIS, NIAS Bangalore, September 11, 2014

43. Gender synergy: Growing young women leaders in science and technology (ORAL)

Baldev Raj

Inaugural Address for International Training Programme on "Leadership and Career Development for Women Scientists and Technologists", NIAS

Bangalore, 8th September 2014

44. A Perspective on Energy Sustainability

Baldev Raj

Manipal University, April 25-26th, 2014

45. Science & technology of Sodium Fast Reactors

Baldev Rai

Manipal University, April 25-26th ,2014

46. Science and Technology in India: Demography, Diversity and Demands

Baldev Raj

Scholars of San-diego University, USA, 2014

47. Materials and Manufacturing for Sodium Cooled Fats Spectrum reactors and Associated Fuel Cycles

Baldev Rai

Materials: A Key Enabling Technology for Secure Energy & Sustainable Development

IV World Materials Summit

Strasbourg, France, European, materials Research Society

October 14th-15th ,2013

48. Experiences in In-situ repair welding of steam turbine shrouds and blades

Baldev Raj & A K Bhaduri

65th Annual Assembly of the International Institute of Welding, Denver, USA July 12, 2012

49. Degradation mechanisms and their management in nuclear components Baldev Rai

IAEA Workshop on Environment Degradation of Nuclear Materials, International Centre for Theoretical Physics, Trieste, Feb 2012

50. Design to combat degradation of nuclear components

Baldev Rai

IAEA Workshop on Environment Degradation of Nuclear Materials, International Centre for Theoretical Physics, Trieste, Feb 2012

51. Materials and manufacturing to have good DNA of the nuclear component

Baldev Rai

IAEA Workshop on Environment Degradation of Nuclear Materials, International Centre for Theoretical Physics, Trieste, Feb 2012

52. NDE for health diagnosis of nuclear component

Baldev Raj

IAEA Workshop on Environment Degradation of Nuclear Materials, International Centre for Theoretical Physics, Trieste, Feb 2012

53. Analysis based diagnostic measurements leading to minimal risks in asset management of high performance machines and plant

Baldev Rai

Nineth Annual NIAS-DST Programme on "Multidisciplinary Perspectives on Science, Technology and Society". Theme: Science & Technology Communications, National Institute of Advanced Studies, Bangalore, August 18, 2011

54. High performance nano coatings: frontiers in tribology performance

Baldev Raj

Trilateral conference on nanotechnologies for energy, environment & health care (China, India & Singapore), Shangai, Nov 2011

55. Challenges of managing mega projects under Indian conditions

Baldev Rai

Lecture delivered to Engineers and Trainee Officers of Nuclear Fuel Complex, Hyderabad, January 14, 2011

56. Recent developments of structural welds and pipes for the fast reactor programme in India Baldev Rai and A.K. Bhaduri

International Conference organized by International Institute of Welding, Istanbul, July 15 & 16, 2010

57. Closing the fuel cycle for sodium cooled fast reactors: Challenges and directions

Baldev Rai

International Conference on Peaceful Uses of Atomic Energy, New Delhi, September 29-30, 2009 during Homi Bhabha Centenary Year Celebrations organized under the auspices of Department of Atomic Energy and International Atomic Energy Agency, Vienna, Austria

58. Nuclear energy and issues of sustainability and energy security

Baldev Rai

International Conference on Research Policy for Sustainable Energy, October 12, 2009, New Delhi organized by Indian National Academy of Engineering

59. Seamless Engineering: A rewarding challenge

Baldev Rai

5th National Convention on Seamless Engineering Education for Better Employability of Engineers – Policy Issues, New Delhi, September 30, 2009

60. Frontiers in science and technology of nondestructive testing application for industry, health and culture

Baldev Rai

NDT Driving Industry Safety, Growth and Performance, Malaysia International NDT Conference and Exhibition, Kaula Lumpur, Malaysia, July 20-21, 2009

61. Current status and future plan of fast reactor development in India

Baldev Raj

Orai R&D Centre, Japan Atomic Energy Agency, Japan, May 21, 2009

62. Current status and future plan of fast reactor development in India: Emphasis on materials science and technology

Baldev Raj

National Institute of Materials Science, Tsukuba, Japan, June 2, 2009

63. Approaches to development of steels and manufacturing technologies for fusion reactors Baldev Raj

29th Riso International Symposium on "Energy Metals – Advances in Characterization, Modeling and Application, Roskilde, Denmark, September 1-5, 2008

64. Clad and Wrapper Materials Development at IGCAR for Fast Breeder Reactors : An Overview Baldev Raj

IAEA Technical meeting on SS Cladding and Fuel Assembly Materials and Components for LMFR, Nuclear Fuel Complex, Hyderabad, July 2-4, 2008

65. Energy scenario in India: Nuclear Energy – Applications of nano science & technology Baldev Raj

India-Brazil Workshop on "Energy; Applications of nano Science & Tchnology", Johannesburg, South Africa, June 11-13, 2008

66. Current status of nuclear energy in India: Sustainable and environmentally acceptable option for energy security in 21st century

Baldev Raj

17th Convocation of the International Council of Academies of Engineering and Technological Sciences (CAETS), Tokyo, Japan, October 23-26, 2007

67. Materials challenges in fusion and fission reactors for energy sustainability: Indian scenario Baldev Raj

First World Materials summit on Materials Research: Key to Meeting Energy Needs and Climate Change, Lisbon, Portugal, October 4-5, 2007

68. Indian Fast Reactor Programme: Current status and projections to the future Baldev Raj and K.V. Kasiviswanathan

8th Russian Conference on Reactor Material Science, Dimitrovgrad, Russia, May 21-25, 2007

69. Advances in modeling and monitoring in metal forming and welding processes Baldev Rai

International Symposium for Research Scholars (ISRS-2006), Indian Institute of Technology Madras, Chennai, December 18-20, 2006

70. Application of the science and technology of welding and hardfacing for the Prototype Fast Breeder Reactor

A.K. Bhaduri and Baldev Rai

All India Conference on "Welding Applications in Construction and Maintenance of Power Plants", Indian Institute of Welding, Kolkata, September 23, 2006

71. Current and 2050 energy perspectives in India – Opportunities for material scientists and technologists

Baldev Raj

8th Liege Conference on Materials for Advanced Power Engineering, Liege, Belgium, September 18-20, 2006

72. Strategies for fast reactor fuel cycle development

Baldev Rai

9th Information Exchange Meeting on Actinides and Fission ProductTransmutation & Partitioning, Nimes, France, September 25-29, 2006

73. Current status of pyroprocessing research in India

K. Nagarajan, T. Subramanian, B. Prabhakara Reddy, P.R. Vasudeva Rao and Baldev Raj, International Conference on Pyroprocessing Research, Idaho National Laboratory, August 2006

74. R&D Synergy for Robust Fast Breeder Reactors and Associated Fuel Cycles

Baldev Raj, Special Colloquium on the occasion of the Golden Jubilee Year of Bhabha Atomic Research Centre, Trombay, Mumbai, April 25, 2006

75. Relative influence of different factors on Young's modulus in nickel and zirconium based alloy systems upon precipitation of intermetallics

Anish Kumar, T. Jayakumar and Baldev Raj

9th European Conference on Non-Destructive Testing, Berlin, Germany, September 25-29, 2006

76. Application of computational and experimental mechanics in FBR design Baldev Rai

5th International Conference on Computational Engineering and Science, Indian Institute of Technology Madras, Chennai, December 1-6, 2005

77. A perspective of Indian nuclear energy & fuel cycle: Fast reactor fuel cycle for energy sustainability

Baldev Rai

Workshop on Nuclear Fuel Cycle (Backend), Institute of Research & Innovation, Tokyo, Japan, October 7, 2005

78. FBR development in India

Baldev Rai

GLOBAL 2005, Tokyo, Japan, October 2005

79. Design linked manufacturing challenges in the sodium cooled Fast Breeder Reactor Baldev Raj and P. Chellapandi

Indo-US Technology Summit on Excellence in Integrated Design and Manufacturing Systems: Indo-US Partnership, Federation of Indian Chambers of Commerce and Industry and Indo-US Science & Technology Forum, New Delhi, November 9, 2005

80. Numerical and experimental simulation of mechanical consequences of core disruptive accident in Fast Breeder Reactor

Chellapandi, S.C. Chetal and Baldev Raj

AERB-USNRC Joint Meeting, USA, September 2005

81. NDT for realizing better quality of life in emerging economies like India

Baldev Rai

Course on Non-Destructive Evaluation – A comprehensive overview for managers, Chennai, May 31, 2003

82. Comprehensive corrosion management: Issues and directions

Baldev Raj

Seventh International Symposium on Advances in Electrochemical Science 7 Technology, Chennai, November 27-29, 2002

83. Advances in NDT methods for monitoring structural integrity of engineering components Baldev Rai

NMD-ATM 2002, Indian Institute of Metals, Baroda, November 14-17, 2002

84. NDE of titanium alloys

Baldev Raj, T. Jayakumar and Anishkumar

Conference on "Light Metals & Composites for Strategic and Societal Needs (LMCSSN 02), Regional Research Laboratory, Thiruvananthapuram, October 22-23, 2002

85. Acoustic emission technique for characterizing deformation and fatigue crack growth Baldev Raj, C.K. Mukhopadhyay, V. Moorthy and T. Jayakumar

28th Review of Progress in Qualitative Nondestructive Evaluation, Bellingham, USA, July (2002)

86. Challenges in in-service inspection for nuclear components: Scenario and emerging directions Baldev Raj, T. Jayakumar and B.P.C. Rao

4th International Workshop on "The Integrity of Nuclear Components", Jeju, Korea, April 14-15, 2002

87. Assessment of microstructures and damage by NDE methods

Baldev Raj, T. Jayakumar and Anish Kumar

17th Annual Conference of Korean Atomic Industrial Forum Inc./Korean Nuclear Society, Seoul, Korea, April 17 & 18, 2002

88. Nondestructive evaluation techniques for assessment of degradation of microstructures and defects in pressure retaining components

Baldev Raj and T. Jayakumar

Indo-German Theme Meeting on Fatigue and Fracture Assessment of Pressure Retaining Components, Mumbai, February 25 to March 1, 2002

89. NDE and failure analysis of landing gear components of aircrafts

Baldev Raj

11th National Seminar on Aerospace Structures (NASAS) – Experimental Techniques and Testing Methods, National Aerospace Laboratories, Bangalore, February 8-9, 2002

90. Advances in NDE techniques for inservice inspection

Baldev Raj, T. Jayakumar and B.P.C. Rao

IAEA/RCA Regional Training Course on Inservice Inspection or Research Rectors, Mumbai, January 21 to February 1, 2002

91. Materials challenge at the back-end of the fuel cycle

Baldev Raj and U. Kamachi Mudali

Conference on Nuclear Technology Challenges in the 21st Century, 12th Annual Conference of Indian Nuclear Society (INSAC-2001), Centre for Advanced Technology, Indore, October 10-12, 2001

92. Intelligent characterization

Baldev Rai

AICTE-USTE Sponsored Short Term Training Programme on Intelligent Materials for the New Millennium, Pondicherry Engineering College, May 21, 2001

93. Sensors and software for materials characterization: Development at IGCAR Baldev Rai

AICTE-USTE Sponsored Short Term Training Programme on Intelligent Materials for the New Millennium, Pondicherry Engineering College, May 21, 2001

94. Challenges and approaches in nondestructive evaluation of ageing aircrafts Baldev Raj

International Seminar on Aerospace Technologies: Developments & Strategic (AERO INDIA 2001), Bangalore, February 8 & 9, 2001

95. Probing of microstructures and their evolution by magnetic and acoustic methods Baldev Raj

Sixty-sixth Annual Meeting of Indian Academy of Sciences, Goa, November 24-26, 2000

96. Acoustic measurements for evaluation of materials and components

Baldev Raj and T. Jayakumar

National Symposium on Acoustics (NSA 2000), St. Joseph's College, Tiruchirapalli, November 22-23, 2000 – Proc. Journal Acoustical Society of India, Volo.28, No.1-4 (2000) pp. 25-48

97. Application of signal analysis, image processing and knowledge-based systems in nondestructive evaluation

Baldev Rai

4th International Conference on Advances in Pattern Recognition and Digital Techniques (ICAPRDT'99), Indian Statistical Institute, Calcutta (1999)

98. Research and development of sensors at IGCAR Baldev Raj

International Technology Convention '99, Indian Institute of Chemical Technology, organized by Dr. D. Swaminathan Research Foundation, Hyderabad, November 2-4, 1999

99. Technological challenges in the indigenous development of PFBR fuel and materials Baldev Raj and T.P.S. Gill

International Technology Convention '99, Indian Institute of Chemical Technology, organized by Dr. D. Swaminathan Research Foundation, Hyderabad, November 2-4, 1999

100. Role of NDE in quality management of products in metallurgical industries Baldev Raj

National Conference on Quality Control in Metallurgical Industries, PSG College of Technology, Coimbatore, September 29 & 30, 1999

101. Front end of the nuclear fuel cycle and special materials for the nuclear programme Baldev Raj

5-Day Workshop for Journalists, Bhabha Atomic Research Centre, Mumbai, April 12-16, 1999

102. Assessment of creep and fatigue damage using advanced nondestructive evaluation techniques

Baldev Raj, V. Moorthy and T. Jayakumar

Third Workshop on Creep, Fatigue and Creep-Fatigue Interaction, Kalpakkam, January 20-22, 1999

103. Characterization of South Indian bronzes

Baldev Raj and B. Venkataraman

Special Session on Heritage at the Annual Technical Meeting of Indian Institute of Metals, Bangalore, November(1998)

104. Comprehensive approaches for reliable assessment of performance of heat exchangers Baldev Raj and B.P.C. Rao

Transactions of the Metal Finishers' Association of India 8(1) (1999) pp.13-22

105. Role of R&D institutions in updating technical education

Baldev Rai, P.V. Kumar and P. Rodriguez

Seminar on Accreditation of Self Financial Engineering Colleges in Tamil Nadu, Andhra Pradesh, Karnataka, Kerala and Pondicherry, Chennai, September 12, 1998

106. An overview on management of welding technology

Baldev Rai

1st Technical Meeting of the year 1998-99, Indian Institute of Welding, Chennai Branch, August 29, 1998

107. Acoustical signal processing for nondestructive evaluation

Baldev Rai

National Symposium on Acoustics, Calcutta, December 9-11, 1998

108. Current trends in ultrasonics testing and evaluation of engineering materials and components

Baldev Raj

IX National Symposium on Ultrasonics, Pondicherry University, December 26 & 27, 1998

109. Quality management practices for nuclear power plants

Baldev Raj

Seminar on Project Management for Large Nuclear Power Plants, IGCAR, Kalpakkam, June 30, 1998

110. NDE and failure analysis towards damage assessment of high temperature components K.V. Kasiviswanathan, T. Jayakumar and Baldev Raj

Workshop-cum-Seminar on Deformation and Integrity of Structural Components at Elevated Temperatures, Institute of Technology, Banaras Hindu University, Varanasi, February 6&7, 1998

111. Mastering materials performance for fast breeder reactors Baldev Raj and K. Bhanu Sankara Rao

Engineering Excellence in India, 12th Engineering Congress, Nagpur, January 9-13, 1998

112. Insights into technology and conservation of South Indian bronzes

Baldev Raj and U. Kamachi Mudali

Workshop on Indian Bronzes, Sarabhai Foundation, Ahmedabad, January 24-26, 1998

113. Engineering failures: New science and improved technology

Baldev Raj and K.V. Kasiviswanathan

International Conference on Advances in Mechanical and Industrial Engineering, University of Roorkee, February 6-8, 1997, Ajay Printers and Publishers, Roorkee, IN 01/01, pp.1-10

114. Improved technology through failure investigations

Baldev Rai

Workshop on DAE Technologies, Institution of Chemical Engineers, Calcutta, February 1997

115. Artificial intelligence to maximize contributions of nondestructive evaluation to materials science and technology

Baldev Raj and C. Rajagopalan

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116. Nondestructive testing and evaluation of nuclear power plant components

Baldev Raj and T. Jayakumar

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117. History of metallurgy in India

Baldev Rai

Invited talk at the Seminar on Traditional Chemical and Scientific Practices, National Institute for Advanced Studies, Bangalore, March 11-14, 1996

118. Nondestructive testing and microstructural characterization

T. Jayakumr and Baldev Rai

Conference on Defects in Condensed Media, IGCAR, Kalpakkam, September 1995

119. Corrosion monitoring using nondestructive test techniques

Baldev Raj

5th National Science Congress on Corrosion Control, National Corrosion Council of India, New Delhi, April 19-21, 1995

120. Evolving inspection technologies for reliable condition assessment of components and plants

Baldev Raj

INS Annual Conference on Advanced Technologies related to Nuclear Power (INSAC-94), Bhabha Atomic Research Centre, Bombay, February 28 to March 2, 1994

121. Co-operation among universities, industries and research institutes

Baldev Raj

Centenary Year of G.D. Birla National Symposium, Birla Institute of Technology and Science, Pilani, April 1994

122. Intelligent processing of materials

Baldev Raj

Seminar on Advanced NDT Techniques, Hyderabad, April 6, 1994

123. Materials aspects in ageing management

P. Rodriguez and Baldev Raj

National Symposium on Ageing Management of Nuclear Facilities, Bhabha Atomic Research Centre, Bombay, January 1994

124. Emerging trends in nondestructive characterization of materials Baldev Raj

Lead Talk: Structure Session on NDT and Quality Assurance, Annual Technical Meeting of Indian Institute of Metals, Hyderabad, November 1993

125. Corrosion management through state-of-the-art NDE

Baldev Rai

International conference on Maintenance, Inspection, Corrosion Management and Plant Reliability (MICMAP-93), Indian Institute of Metals, Baroda, January 1993

126. Nondestructive test techniques for application in intelligent processing of materials Baldev Rai and T. Javakumar

Indian Science Congress, Goa, January 3-7, 1993

127. Looking into future: New techniques in NDT and their potentials

Baldev Rai

Seminar on NDE (NDE-92), Trichy, C.R.L. Murthy, Baldev Rai, O. Prabhakar and A. Srinivasulu, Vol.1 (1992), pp. 23-28

128. Aspects of history of chemistry and metallurgy in ancient and medieval India

C.V. Sundaram and Baldev Raj

Symposium on History of Development of Science in India and France, organized by the Indo-French Committee for Promotion of Advanced Research, Kovalam, Madras, October 1992

129. Emerging trends in NDT as relevant to aerospace industry

Baldev Rai

Seminar on NDT of Aerospace Materials and Components, Vikram Sarabhai Space Centre, Trivandrum, September 1992

130. Standards and codes on acoustic emission technique: Current status and future developments

Baldev Raj and T. Jayakumar

Workshop on Acoustic Emission (NAWACE 92), DRDL, Hyderabad, September 1992

131. NDT of aerospace materials - Challenges and solutions

Baldev Rai

Convention on Aerospace Materials, Institution of Engineers (India), Hyderabad, August 1992

Failure analysis in nuclear industry - Specialities and ensuing strategies

P. Rodriguez, Baldev Raj and T. Jayakumar

Seminar on Failure Analysis in Industry, National Aerospace Laboratories, Bangalore, April 23-24, 1992

133. Recent advances in application of ionizing radiations to NDT evaluation

Baldev Raj and B. Venkataraman

3rd INS Annual Conference on Nuclear Energy Programme: Achievements and Prospects in Medicine, Industry and Agriculture, March 25-26, 1992

134. Recent trends in corrosion monitoring with emphasis on advanced NDE techniques Baldev Raj

Workshop on Nondestructive Evaluation in Corrosion-92, BRNS, Kalpakkam, January 29-31, 1992

ISI techniques for pressure tube and calendria tube assemblies of Indian PHWRs 135. Baldev Rai

Symposium on Zirconium Alloys for Reactor Components (ZARC-91), BRNS, Bhabha Atomic Research Centre, Bombay, December 1991

Emerging trends in engineering materials and components testing using acoustic methods Baldev Raj, P. Kalyanasundaram and C. Rajagopalan National Symposium on Acoustics (NSA 91), New Delhi (1991)

137. Relevance of NDE in the context of gulf war Baldev Raj

National Seminar on ISI-PSI-91, Indian Society for Nondestructive Testing, Bombay, February 1991

138. Aluminium applications in nuclear industries

P. Rodriguez, Baldev Raj and K.V. Kasiviswanathan

International Conference on Aluminiun, Indian Institute of Science, Bangalore (1991)

139. Applications of laser techniques for NDE

Baldev Rai and C. Babu Rao

International Workshop on Laser and their Applications, DST and Centre for Advance Technology, Indore, November 1991

140. Needs, deficiencies and suggestions for improvements in training and certification of NDT personnel

Baldev Rai

National Seminar on Training and Certification, ISNT, BIS & MERADO, Pune, July 6-7, 1990

141. Recent trends in NDE for corrosion monitoring

Baldev Raj and D.K. Bhattacharva

First National Conference on Metallic Corrosion, Central Electrochemical Research Institute, Karaikudi, March 1990

142. Nondestructive testing for characterization of materials

Baldev Rai

National Workshop on Characterization of Materials (TACOM-90), Indian Institute of Metals, Bombay, March 1990

143. Nondestructive evaluation for quality engineering

International Conference on Quality Improvement – Metals and Processes, Madras, January 12-13, 1990

144. Radiation damage in fast reactor components

P. Rodriguez, Baldev Raj, S.L. Mannan and Kanwar Krishan

Symposium on PIE in Nuclear Programme, BRNS, Bhabha Atomic Research Centre, Bombay, (1989)

145. Acoustics for nondestructive evaluation

Baldev Raj and P. Kalyanasundaram

National Symposium on Acoustics (NSA-89), Calcutta (1989)

146. Safety and reliability through NDE

Baldev Raj

Seminar on Safety Engineering, World Federation of Engineering Organizations, New Delhi, September 1989

147. Advances in ultrasonic techniques for evaluation of materials and components

Baldev Raj and P. Kalyanasundaram

National Symposium on Ultrasonics, National Physical Laboratory, New Delhi, September 1989

148. Image analysis and processing activities at IGCAR

Baldev Raj

National Symposium on Image Processing in Materials Science and Other Disciplines, BRNS, Bombay, March 1-3, 1989

149. NDE of austenitic stainless steel

Baldev Raj and C.V. Subramanian

National Workshop on Stainless Steels, Indian institute of Technology, Madras, December 1988

150. Research and development in nondestructive evaluation at Indira Gandhi Centre for Atomic Research, Kalpakkam

P. Rodriguez and Baldev Raj

Seminar on NDE of Solid Propellants and Components, ISRO, Sriharikota, August 18, 1989

151. Post-irradiation examination and NDT measurements

Baldev Raj, K.V. Kasiviswanathan and C. Babu Rao

Indo-German Workshop on Techniques for Materials Characterization, Hyderabad, Dec., 1988

152. Promises of acoustic emission testing

Baldev Raj and T. Jayakumar

National Seminar on NDT for Managers, Indian Society for Nondestructive Testing, Bombay, June 1988

153. Recent trends in utilizing radiation in nondestructive evaluation

Baldev Raj and B. Venkataraman

National Symposium on Radiochemistry and Radiation Chemistry, Bhabha Atomic Research Centre, Bombay, February 1988

154. Materials research using NDT techniques

Baldev Rai

Indo-German Seminar on Trends and Techniques in Modern Research, Indira Gandhi Centre for Atomic Research, Kalpakkam, January 1987

155. Nondestructive test methods for evaluation of microstructures – Present status and trends Baldev Raj and A.K. Rao

National Symposium on Metallography and NDT: Interactions in materials Evaluation, BRNS, Bhabha Atomic Research Centre, Bombay, February 1986

156. Nondestructive evaluation in nuclear industry

Baldev Raj

Seminar on NDT for Profit, Baroda, January 1984

157. Acoustic emission technology

Baldev Rai

First National Seminar on NDT and Inspection, Madras, February 1983