

## **Publications**

1. **STUDIES ON DEFORMATION BEHAVIOUR OF Al - Mg ALLOYS.**  
**J. Mukhopadhyay**, A.M. Rao and A.K. Mallik, Paper presented in 34th Annual Technical Meeting of The Indian Institute of Metals, MS University, Baroda, November 14 to 17, 1980.
2. **STRETCH FORMING OF ALUMINUM & MAGNESIUM ALLOYS.**  
**J. Mukhopadhyay**, A. M. Rao and AK Mallik, Paper presented in 35th Annual Technical Meeting of the Indian Institute of Metals, Jaipur November 14-17, 1981.
3. **DEFORMATION STUDIES OF Al - Mg - Zr ALLOY.**  
**J. Mukhopadhyay**, A.M. Rao and A.K. Mallik, Trans. Indian Institute of Metals, 35(1982) 451 - 455.
4. **CAVITATION OF CERTAIN ALUMINUM & MAGNESIUM ALLOYS.**  
**J. Mukhopadhyay**, A.M. Rao and A.K. Mallik, Paper presented in 37th Annual Technical Meeting of the Indian Institute of Metals, Banaras Hindu University, Varanasi November 14 - 17, 1983.
5. **CREEP AND HIGH TEMPERATURE FRACTURE.**  
**J. Mukhopadhyay** and K. A. Padmanabhan, Paper presented in the seminar Organized Jointly by the Indian Institute of Metals, Madras Chapter and Dept. of Met Engg, I.I.T. Madras, Joint Activity Paper No 8.1, June 28th to July 1, 1984.
6. **DEFORMATION BEHAVIOUR OF Al - Mg - Mn ALLOY.**  
**J. Mukhopadhyay**, A.M. Rao and A. K. Mallik, Trans. Indian Institute of Metals, 38 (1985) 389 - 394.
7. **SUPERPLASTIC DEFORMATION OF HIGH Mn STAINLESS STEEL.**  
**J. Mukhopadhyay**, Progress Report July - December 1986, Joint Research Center, Commission of the European Communities, Ispra Establishment, ITALY.
8. **SUPERPLASTICITY AND CAVITATION OF HIGH Mn (NICKEL FREE) STAINLESS STEEL,**  
**J. Mukhopadhyay**, Technical Report No 1.87.86, Joint Research Center, Commission of the European Communities, ITALY.
9. **ON THE EFFECTS OF HYDROSTATIC PRESSURE ON MECHANICAL PROPERTIES OF 7475 ALUMINUM ALLOY.**  
J.E.Franklin, **J.Mukhopadhyay** and A K Mukherjee, Scripta Met. 22 (1988) 865.
10. **HIGH TEMPERATURE CREEP DEFORMATION OF BORON DOPED SUBSTOICHIOMETRIC CHROMIUM CONTAINING NICKEL-ALUMINIDE.**  
A.Choudhury, **J.Mukhopadhyay** and A.K. Mukherjee, TMs Annual Meeting in Phoenix, Arizona,, January 25 - 28, 1988.
11. **CORRELATION OF UNIAXIAL DATA WITH FORMING LIMIT CURVES OF Al-Mg ALLOY DEFORMED AT AMBIENT AND HIGH TEMPERATURES.**  
**J.Mukhopadhyay** and A.K.Mukherjee, J. Materials Science, 25(1990) 977.
12. **SUPERPLASTIC Cr-Mn STAINLESS STEEL RELATED TO FUSION REACTOR APPLICATION.**  
**Jyoti Mukhopadhyay**, J. Nuclear Materials., 161 (1989) 90.
13. **EXTENDED DUCTILITY AND CAVITATION IN A HIGH MANGANESE STAINLESS STEEL.**  
**J. Mukhopadhyay**, G. Piatti and A.K.Mukherji, J.Mater. Science, 25 (1990) 781.

14. **MECHANICAL PROPERTIES AND CAVITATION DURING SUPERPLASTIC DEFORMATION OF Al - Mg ALLOYS.**  
**Jyoti Mukhopadhyay**, A.M.Rao and A.K.Mallik, Trans. Japan Institute of Metals, 29 (1988) 911.
15. **EFFECT OF STRAIN AND TEMPERATURE IN A SUPERPLASTIC Ni MODIFIED Ti - 6Al - 4V ALLOY.**  
B. Hidalgo-Prada, **J. Mukhopadhyay** and A.K. Mukherjee, Trans. Japan Institute of Metals. 31 (1990) 200.
16. **CORRELATION OF MECHANICAL BEHAVIOUR WITH MICROSTRUCTURAL ASPECTS OF Ni MODIFIED SUPERPLASTIC Ti - 6Al - 4V ALLOY.**  
B.Hidalgo. Prada, **J. Mukhopadhyay** and A.K. Mukherjee, Trans. Japan Institute of Metals, 31 (1990) 689.
17. **SUPERPLASTICITY IN BORON DOPED NICKEL ALUMINIDE.**  
**J. Mukhopadhyay**, G. Kaschner and A.K. Mukherjee, Scripta Metallurgica, 24 (1990) 857.
18. **SUPERPLASTICITY AND CAVITATION IN BORON DOPED Ni3 AL.**  
**J. Mukhopadhyay**, G. Kaschner and A.K. Mukherjee, Paper presented in Second International Symposium on Superplasticity in Aerospace II, Anaheim, Los Angeles, Feb 19 - 21, 1990.
19. **EFFECT OF BORON CHROMIUM AND ZIRCONIUM ON Ni3Al ALLOY**  
**Jyoti Mukhopadhyay**, Journal of Materials Science, 10 (199) 581.
20. **SUPERPLASTIC FORMING AND ITS APPLICATION.**  
**Jyoti Mukhopadhyay**, Paper presented in courses on Advances in Metal Forming Technology organized by Indian Institute of Metals, Hyderabad Sept 12-14, 1991.
21. **SUPERPLASTIC FORMING CONCEPTS AND INDUSTRIAL APPLICATIONS.**  
**Jyoti Mukhopadhyay**, Presented in courses on Seamless Steel Tubes and Metal Forming Technologies sponsored and organized by Department of Scientific and Industrial Research, Govt. of India and Central Metal Forming Institute, Hyderabad January 21 - 22, 1993.
22. **SUPERPLASTIC FORMING OF METALIC ALLOY, INTERMETALICS AND CERAMIC COMPOUNDS.**  
**Jyoti Mukhopadhyay**, presented in seminar on Mechanical Working of Metals MWM 93, Organized by ASM International ( INDIA CHAPTER) and the Indian Institute of Metals (Bombay Chapter) April 15 - 16, 1993.
23. **BASIC METAL FORMING TECHNOLOGY COURSE.**  
**Jyoti Mukhopadhyay**, Presented to the Faculty Members of the Andhra Pradesh State Polytechnics, Hyderabad on 27 - 28th January, 1993.
24. **STUDIES ON FORMING LIMIT DIAGRAM OF DIFFERENT ALLOYS.**  
**Jyoti Mukhopadhyay**, Presented in a Seminar Organized by Indian Deep Drawing Research Group (INDDRG ) at IIT, Bombay on January 21, 1994.
25. **COMMERCIAL EXPLOITATION OF SUPERPLASTIC FORMING AND DIFFUSION BONDING IN AEROSPACE ENGINEERING.**  
**Jyoti Mukhopadhyay**, Presented in a Seminar on Aluminum - Lithium and Magnesium - Lithium Alloys Science, Technology and Application, Jointly Organized by The Indian Institute of Metals and Foundry & Forge Division of HAL Limited Bangalore, Feb 24 - 25, 1994.
26. **FORMABILITY CRITERIA**  
**Jyoti Mukhopadhyay**, Presented in a Seminar on Modernization and Technology Upgradation Press Tools and Tooling Industry Organized by Small Industry Service Institution and Small Industry Development Bank of India , Hyderabad, March 22, 1994.

27. **EFFECT OF PUNCH VELOCITIES ON FORMING LIMIT DIAGRAM ( FLD ) OF Al-Li (1441) ALLOY.**  
**J. Mukhopadhyay**, K.N. Rao, S.P. Ravindranathan and P.K. Sengupta, Presented in a Poster Session of 31st NMD and 47th Annual Technical Meeting of the Indian Institute of Metals, Hyderabad, November 16 - 19, 1993.
28. **SUPERPLASTICITY AND CAVITATION OF NICKEL ALUMINIDE.**  
**J. Mukhopadhyay**, Presented at Indira Gandhi Reactor Research Center, Organized by Indian Institute of Metals, Chapter, Kalpakkam, India, April 26, 1994.
29. **EVOLUTION OF FORMING LIMIT DIAGRAM OF DIFFERENT ALLOYS.**  
**J. Mukhopadhyay**, Presented Invited Lecture at Salem Steel Plant, Organized by Indian Institute of Metals, Salem Chapter, Salem, India, April 29, 1994.
30. **FORMABILITY CRITERIA IN METAL FORMING.**  
**J. Mukhopadhyay**, Delivered Lecture in a Summer School on " Metal forming - Theory and Practice" Organized by Punjab Engineering College, Chandigarh, India, June 16, 1994.
31. **SUPERPLASTIC FORMING CONCEPTS AND INDUSTRIAL APPLICATION.**  
**J. Mukhopadhyay**, Delivered Lecture in a Summer School on " Metal Forming - Theory and Practice" Organized by Punjab Engineering College, Chandigarh, India, June 17, 1994.
32. **MODERN HEAT TREATMENT TECHNIQUES.**  
**J. Mukhopadhyay**, Presented a series of lectures to the Faculty Members of Andhra Pradesh Polytechnique, Jointly Organized by Technical Teachers Training Institute and HMT, Hyderabad, India, 26 - 30th July, 1994.
33. **PARAMETERS AFFECTING LIMIT STRAIN OF FORMING LIMIT DIAGRAM (FLD) OF Al - Li ( 1441 ) ALLOY.**  
**J. Mukhopadhyay**, K.N. Rao, V. Ramesh Kumar and P. K. Sengupta, Presented in 48th Annual Technical Meeting of the Indian Institute of Metals, Visakapatnam, November 14 - 17, 1994.
34. **THEORETICAL EVALUATION OF FORMING LIMIT DIAGRAM BY COMPUTER.**  
V. Ramesh Kumar, **J. Mukhopadhyay**, and M. Kumaraiah, Presented in a Seminar on "Computers in Mechanical Engineering" at the 10th National Convention of Mechanical Engineers, Organized by Institute of Engineers, Hyderabad Chapter, November 5, 1994.
35. **AN INTRODUCTION TO POWDER FORGING AND ITS COMMERCIAL VIABILITY.**  
**J. Mukhopadhyay**, Presented in the National Conference on Forging Materials, Technology and Export Opportunities, Forge India 95, Organized by Indian Institute of Metals, New Delhi, April 21 - 22 (1995).
36. **PARAMETERS AFFECTING LIMIT STRAIN OF FORMING LIMIT DIAGRAM (FLD) OF Al - LI (1441) ALLOY.**  
**J. Mukhopadhyay**, K.N. Rao and V. Ramesh Kumar, M. Kumaraiah and P.K. Sengupta Presented in a Conference on Quality Engineering in Aerospace Technologies, "QUEST 95" Organized by Directorate of Reliability & Quality Assurance and Defense Research Development Laboratory, Hyderabad, October 13 – 14, 1995.
37. **THEORETICAL MODELLING AND EXPERIMENTAL EVALUATION OF ASSESSING THE FORMABILITY OF Al - Li (1441) ALLOY.**  
**J. Mukhopadhyay**, K. N. Rao, V. Ramesh Kumar and M. Kumaraiah, Presented at 49th Annual Technical Meeting of Indian Institute of Metals, Calcutta, November 14 – 17, 1995.
38. **EFFECT OF PUNCH VELOCITIES ON FLD OF Al - Li (1441) ALLOY.**  
V. Ramesh Kumar, K.N. Rao, **J. Mukhopadhyay** and M. Kumaraiah, Presented at 47th Annual Technical Meeting of Indian Institute of Metals, Hyderabad, Nov. 16 – 19, 1993.

39. **EFFECT OF PARAMETERS ON STRETCH FORMING OF FLD FOR Al - Li ALLOY.**  
V. Ramesh Kumar, K.N. Rao **J. Mukhopadhyay** and M. Kumaraiah, International Conference on Sheet Metal Forming, Bombay, November 28 – 29, 1994.
40. **FORMABILITY CHARACTERIZATION OF Al - Li (1441) ALLOY SHEET BY MEASURING STRETCHING LIMIT IN - PLANE Vs OUT-OF- PLANE DEFORMATION.**  
V. Ramesh Kumar, K. N. Rao, **J. Mukhopadhyay** and M. Kumaraiah. Golden Jubilee of Indian Institute of Metals, International Symposium, New Delhi, November 14 – 18, 1996.
41. **FORMABILITY STUDIES OF Al - Li ALLOYS ( 1441 ).**  
V. Ramesh Kumar, K.N. Rao, **J. Mukhopadhyay** and M. Kumaraiah, 17th A.I.M.T.D.R., January 9 – 11, 1997.
42. **FORMABILITY CHARACTERIZATION OF FLD "THEORETICAL Vs EXPERIMENTAL ANALYSIS.**  
V. Ramesh Kumar, K. N. Rao, **J. Mukhopadhyay** and M. Kumaraiah, Submitted to the International Journal Metal Processing Technology for Publication.
43. **ALUMINUM FOIL AND ITS COMMERCIAL VIABILITY.**  
**Jyoti Mukhopadhyay**, Presented Key Note Lecture at 51st Annual Technical Meeting, Jointly Organized by Indian Institute of Metals and Tata Steel, Jamshedpur, November 14 – 17, 1997.
44. **EFFECT OF COLD WORK ON THE FORMING LIMIT DIAGRAM OF AISI 304 STAINLESS STEEL SHEET.**  
C. Ravishankar and **J. Mukhopadhyay**, Presented at 51st Annual Technical Meeting Jointly Organized by Indian Institute of Metals and Tata Steel, Jamshedpur, November 14 – 17, 1997.
45. **INVESTIGATIONS INTO THE CAUSES OF FOIL CRACKING.**  
**J. Mukhopadhyay**, Reports Assembled and Presented to the Senior Executives of India Foil LTD, Calcutta, January 11, 1998.
46. **COMMERCIAL PRODUCTION AND PROCESSING OF ALUMINIUM FOIL AND ITS APPLICATIONS.**  
**J. Mukhopadhyay** , Presented key note lecture in the Workshop on Metal Engineering Trends in Processing Techniques & Applications, Organized by Metallurgy Dept., B.E. College and Corporate Monitor, B.E. College, January 30, 1998.
47. **FIBRE GLASS REINFORCED ALUMINUM FOIL AND ALUMINUM FOIL TAPE.**  
**J. Mukhopadhyay**, Report on Product Development Presented to the Senior Executives of India Foils LTD, Calcutta, March 6, 1998.
48. **DEVELOPMENT OF PACKAGING MATERIALS FOR IRRADIATED FOOD.**  
**J. Mukhopadhyay & S. Roy**, Presented **Invited Lecture** in the International Conference on Processed Food For 21<sup>st</sup> Century, Organized by Dept. of Food Technology & Bio Chemical Engineering, Jadavpur University, at Science City, Calcutta, January 14 - 16, 2000.
49. **MODERN TREND IN FOOD PACKAGING MATERIALS.**  
**J. Mukhopadhyay**, Presented **Lead Lecture** in Indian Convention of Food Scientists & Technologists 2000, Organized by Association of Food Scientists & Technologists and Central Food Technological Research Institute (Mysore) Mysore, November 22 - 24, 2000.
50. **INVESTIGATION INTO THE CAUSES OF PIN HOLE IN ALUMINIUM FOIL.**  
**J. Mukhopadhyay**, Presented to the Senior Executives of India Foils Ltd, Calcutta, April 14, 2001.

51. **ALUMINIUM FOIL AND ITS USE IN PHARMACEUTICAL, FOOD PROCESSING AND AIRCONDITIONING INDUSTRY.**  
**J. Mukhopadhyay**, Presented as **METALLURGIST OF THE YEAR AWARD** at 39<sup>th</sup> National Metallurgist Day 2001, Organised by Indian Institute of Metals, Bhubaneswar, November 18, 2001.
52. **PREPARATION OF DEFECT FREE ALUMINIUM FOIL AND ITS COMMERCIAL VIABILITY.**  
**J. Mukhopadhyay**, Presented **Invited Lecture** at B. E. College Deemed University, Jointly Organized by Indian Institute of Metals and B.E. College Deemed University, December 6, 2001.
53. **COMMERCIAL APPLICATION OF ALUMINUM FOIL IN TWENTY FIRST CENTURY**  
**J. Mukhopadhyay**, Presented **Invited Lecture** to the members of Indian Institute of Metals, Organized by Indian Institute of Metals, Calcutta Chapter, December 28, 2001.
54. **COMMERCIAL APPLICATION OF Al – Mg ALLOY FOR ROLLING STOCK.**  
**J. Mukhopadhyay**, Presented in Non Ferrous Meet 2002 Program, Organized by Non ferrous Technology Development Centre (NFTDC) Hyderabad, June 28 – 29, 2002.
55. **PRODUCT KNOWLEDGE WORKSHOP OF PRIMARY ALUMINIUM METAL.**  
**J. Mukhopadhyay**, Presented to the Senior Marketing Executives of Hindustan Aluminium Company at Renukoot , Uttar Pradesh, July 21, 2002.
56. **COMMERCIAL APPLICATION OF ALUMINIUM ALLOYS AND FOIL.**  
**J. Mukhopadhyay**, Presented at **Birla Management Centre**, Bombay, July 31, 2002.
57. **COMMERCIAL APPLICATION OF ALUMINIUM ALLOYS IN TRANSPORT SECTOR.**  
**J. Mukhopadhyay**, Presented to the Senior Executives of Hindustan Aluminium Company, at Renukoot, Uttar Pradesh, August 13, 2002.
58. **PROSPECT OF ALUMINIUM ALLOYS IN AUTOMOBILE INDUSTRY.**  
**J. Mukhopadhyay**, Presented at 40<sup>th</sup> National Metallurgist Day at Vadodara, Organized by Indian Institute of Metal, Vadodara, 14 – 17 November, 2002.
59. **USE OF ALUMINIUM SHEETS AND COMPONENTS IN AUTOMOBILE INDUSTRY.**  
**J. Mukhopadhyay**, presented at Sheet Metal Forming Conference 2002, organised by Sheet Metal Forming Association of India at Bombay during the period of December 3 and 4, 2002.
60. **APPLICATION OF REFRACTORIES IN ALUMINIUM INDUSTRY.**  
**J. Mukhopadhyay**, P. Sharma and Tapas Chowdhury, Presented at the Seminar on Refractory for Aluminium Industry, Jointly Organised by Indian Refractory Makers Association and Hindalco Industries Ltd, Renukoot, January 18, 2003.
61. **PARAMETERS AFFECTING STRAIN RATE SENSITIVITY IN Al – Mg ALLOYS.**  
**J. Mukhopadhyay**, Presented at 132<sup>nd</sup> Annual Technical Meeting & Exhibition of TMS, at San Diego, California, U.S.A. March 2 – 6, 2003.
62. **APPLICATION OF ALUMINIUM FOIL IN PACKAGING**  
**J. Mukhopadhyay**, Presented at International Conference on Aluminium organized by Aluminium Association of India, INCAL '03' Vol-2, New Delhi, April 23-25, 2003.
63. **PROSPECT OF ALUMINIUM IN TRANSPORT, BUILDING & CONSTRUCTION AND PACKAGING SECTORS IN INDIA.**  
**J. Mukhopadhyay**, Presented **International Conference on Non – Ferrous Metals – 2003**. Jointly organised by Institute of Technology, BHU and Hindalco Industries Ltd. at Varanasi on July 4-5, 2003.

64. **WASTE MANAGEMENT OF ALUMINIUM THROUGH RECYCLING**  
**J. Mukhopadhyay**, Presented at 41<sup>st</sup> National Metallurgist Day and 57<sup>th</sup> Annual Technical Meeting Organised by Indian Institute of Metals, Kolkata during the period of November 14-16, 2003.
65. **WILL ALUMINIUM REPLACE STEEL? – THE FUTURE SCENARIO**  
**J. Mukhopadhyay**, Presented at International Congress on Sheet Metal Technology for Global Competitiveness Organised by IMTMA, Mumbai during the period October 16-18, 2004 at Mumbai and October 18-20, 2004 at New Delhi.
66. **APPLICATION OF ALUMINIUM IN TRANSPORT SECTOR**  
**J. Mukhopadhyay**, Presented at International Exhibition and Conference on Advancements in Materials and Processes for the Transportation Sector organised by ASM International and FICCI, Mumbai during the period November 8-10, 2004.
67. **A METHOD FOR THE SYNTHESIS OF NANO-STRUCTURED ALUMINA AND ALUMINA CERAMICS**  
**J. Mukhopadhyay**, K.V. Ramana Rao and S. Senthil Kumar, Presented at 42<sup>nd</sup> NMD & 58<sup>th</sup> ATM Organised by Indian Institute of Metal at Thiruvananthapuram during the period November 14 - 17, 2004
68. **METAL CASTING – ALUMINIUM ALLOYS**  
**J. Mukhopadhyay**, R.N. Chouhan and T. Sakthivel, Presented paper at Madras Organised by Metallurgical Society, Chennai during the period January 7-8, 2005.
69. **EXTRACTION OF AVALUE ADDED PRODUCTS FROM ALUMINIUM DROSS MATERIAL TO ACHIEVE ZERO WASTE**  
**J. Mukhopadhyay**, Y.V. Ramana and Upendra Singh, Presented at 2005 TMS Annual Meeting and Exhibition during February 13-17, 2005 at San Francisco, USA
70. **A CASE STUDY ON LIFE CYCLE ANALYSIS OF COPPER ANODE BAR**  
**J. Mukhopadhyay**, Y.V. Ramana and Rajnish Kumar, Presented at 2005 TMS Annual Meeting and Exhibition during February 13-17, 2005 at San Francisco, USA
71. **EXTRACTION, REFINING & RECYCLING OF ALUMINIUM AND ITS APPLICATIONS**  
**J. Mukhopadhyay**, S.B. Wadodkar and A. Agnihotri, Presented at PDM 2005 Organized by IIT Bombay and at IIT, Bombay during the period March 17-19, 2005.
72. **APPLICATION OF ALUMINIUM IN AUTOMOBILE SECTOR**  
**J. Mukhopadhyay**, to be presented at Ninth International Conference on Non-ferrous Metals-2005 at Pune during the period July 8-9, 2005.
73. **PROSPECT OF ALUMINIUM IN ELECTRIC VEHICLES WITH GLOBAL PERSPECTIVE**  
**J. Mukhopadhyay**, Presented at Workshop on Technology Priorities for Electric Vehicles Organized by TIFAC, New Delhi on July 22, 2005.
74. **APPLICATION OF ALUMINIUM IN TRANSPORTATION, BUILDING CONSTRUCTION AND PACKAGING WITH GLOBAL PERSPECTIVE.**  
**J. Mukhopadhyay**, presented at All India Seminar on “Aluminium Production : Energy, Environment and Hazards” organized jointly by Bengal Engineering and Science University, Shibpur and The Institution of Engineers (India), Kolkata at Kolkata during the period September 1-2, 2005.
75. **INDIA’S R&D EFFORTS IN THE ALUMINIUM SECTOR – AN UPDATE**  
**J. Mukhopadhyay**, presented at National Seminar on Non-Ferrous Metals – Strategies for Competitiveness & Globalization organized by The Indian Institute of Metals at New Delhi during the period September 22-23, 2005.

76. **GROWTH OF ALUMINIUM IN AUTOMOBILE INDUSTRY**  
**J. Mukhopadhyay**, presented at International Congress on Mobility Engineering at Chennai organized by The Indian Institute of Metals and Tata Steel during the period October 24-25, 2005.
77. **MECHANICAL ACTIVATION OF  $\alpha$ -Al<sub>2</sub>O<sub>3</sub> FORMATION FROM Al(OH)<sub>3</sub> USING HIGH ENERGY BALL MILLING**  
V. Udhayabanu, K.V. Ramana Rao, **J. Mukhopadhyay** and B.S. Murthy, Abstract of paper at NMD-ATM 2005 at IIT Madras during the period November 14-16, 2005
78. **STUDIES OF FRICTION STIR WELDED ALUMINIUM**  
**J. Mukhopadhyay**, G.S. Sengar and T. Sakthivel, Abstract of paper at NMD-ATM 2005 at IIT Madras during the period November 14-16, 2005
79. **PROSPECT OF ALUMINIUM IN DOWN STREAM AREAS WITH GLOBAL PERSPECTIVE**  
**J. Mukhopadhyay**, presented at XVI International Symposium ICSOBA-2005 organized by ICSOBA, MIDC and JNARDDC at Nagpur during the period November 28-30, 2005.
80. **DIVERSIFIED USE OF ALUMINIUM FOIL IN PACKAGING & INSULATION**  
**J. Mukhopadhyay**, presented at ALCASTEK 2006 organised by ALCASTEK at Mumbai during the period January 11-14, 2006.
81. **SCOPE OF ENVIRONMENT FRIENDLY MATERIAL FOR AUTOMOBILE INDUSTRY**  
**J. Mukhopadhyay**, presented in the Technical Seminar of New Paradigms in Automotive Technology: Safety, Emission & Beyond organised by Society of Indian Automobile Manufacturers, New Delhi at Jaipur during the period February 8-10, 2006.
82. **“A JOURNEY FROM BAUXITE TO DOWNSTREAM APPLICATIONS OF ALUMINIUM ALLOYS WITH A SPECIAL REFERENCE TO WASTE UTILISATION”**  
**J. Mukhopadhyay**, presented in the conference on Advancements in “Aluminium Electrolysis” organized by IIM Angul Chapter on February 11, 2006.
83. **ALUMINIUM AN ECOFRIENDLY METAL**  
**J. Mukhopadhyay**, presented at NEERI, Nagpur on the occasion of Science Day on February 28, 2006.
84. **MICROSTRUCTURE AND MECHANICAL PROPERTIES OF COMMERCIAL GRADE ALUMINIUM AS A FUNCTION OF WELDING SPEED USING FRICTION STIR WELDING**  
**J. Mukhopadhyay**, G.S. Sengar and T. Sakthivel, presented at 2006 TMS Annual Meeting and Exhibition during March 12-16, 2006 at San Antonio, Texas, USA
85. **OVERVIEW OF ALUMINIUM INDUSTRY & ENVIRONMENTAL RELATED ISSUES IN INDIA**  
**J. Mukhopadhyay**, presented to the experts of Asia-Pacific Partnership on Clean Development and Climate held at Berkeley, California during the period April 18-21, 2006.
86. **APPLICATION OF ALUMINIUM ALLOYS IN DOWNSTREAM AREAS**  
**J. Mukhopadhyay**, Invited lecture presented at the National Academy for Defence Production (NADP), Nagpur on September 14, 2006.
87. **EFFECT OF DIE TEMPERATURES IN ALUMINIUM EXTRUSION – A REVIEW**  
**J. Mukhopadhyay** and V.N.S.U. Viswanath Ammu, presented at Conference on Aluminium Extrusion (ALEX-2006) at Goa during the period November 2-5, 2006.
88. **ENERGY, ENVIRONMENTAL AND RECYCLING ISSUES OF ALUMINIUM: AN OVERVIEW**  
**J. Mukhopadhyay**, K.V. Ramana Rao and T. Sakthivel, presented at Conference on Aluminium Extrusion (ALEX-2006) at Goa during the period November 2-5, 2006.

89. **STUDIES ON FRICTION STIR WELDING TECHNIQUE**  
**J. Mukhopadhyay**, K.V. Ramana Rao and T. Sakthivel, presented at National Welding Seminar at Chennai during the period November 24-26, 2006.
90. **SCOPE AND CHALLENGES OF INDIAN ALUMINIUM INDUSTRY**  
**J. Mukhopadhyay**, G.S. Sengar and Anupam Agnihotri, published in Minerals & Metals Review, p.62, January 2007.
91. **PREPARATION AND CHARACTERIZATION OF NEW WATER BASE LOW COST COATING MATERIAL FOR ANODE ROD STUBS**  
**J. Mukhopadhyay** and Upendra Singh, presented at 2007 TMS Annual Meeting and Exhibition during February 25-March, 2007 at Orlando, Florida
92. **MICROSTRUCTURE AND MECHANICAL PROPERTIES OF FRICTION STIR WELDED AA 6063**  
**J. Mukhopadhyay**, G.S. Sengar, P. Dungore and T. Sakthivel, published in Aluminium in India, p.3, July 2007
93. **WASTE UTILISATION & RECYCLING OF ALUMINIUM DROSS**  
**J. Mukhopadhyay**, Upendra Singh, published in Minerals & Metals Review, January 2008, p.117
94. **HIGH PURITY ALUMINA AND ITS APPLICATION IN HI-TECH AREAS**  
**J. Mukhopadhyay**, M. Chaddha, Suchita Rai and K. V. Ramana Rao, presented in International Conference on "High-Tech Alumina and Unfolding their Business Prospects (ALUMINAS 2008) organized by Indian Ceramic Society at CGCRI, Kolkata, Feb. 28 – March 1, 2008
95. **ALUMINIUM INDUSTRY IN INDIA: Problems and Prospects**  
**J. Mukhopadhyay**, Invited lecture presented at the Indian Association for Productivity, Quality & Reliability (IAPQR), Kolkata, February 28, 2008
96. **ENERGY UTILISATION & CONSERVATION MEASURES IN MANUFACTURE OF ALUMINIUM**  
**J. Mukhopadhyay**, M.J. Chaddha and A. Agnihotri, paper presented at the National Seminar on Energy, Environment & Economy in Metallurgical Industry organized at New Delhi by Indian Institute of Metals, New Delhi, April 10 -11, 2008
97. **POTENTIAL APPLICATION FOR ALUMINUM IN INDIA AND THEIR ADVANTAGES**  
**J. Mukhopadhyay**, presented at NMD-ATM, International Conference & Exhibition at Greater Noida, Nov. 13-16, 2008
98. **INNOVATIVE APPLICATION OF ALUMINIUM IN DOWNSTREAM INDUSTRY: THE DEMAND OUTLOOK FROM THIS UPCOMING SECTOR**  
**J. Mukhopadhyay**, presented at "Indian Metals 2008" Conference organized by Metal Bulletin at Mumbai, Nov. 19, 2008
99. **BAUXITE TECHNICAL DATA BANK OF INDIA – ITS SIGNIFICANCE FOR THE COUNTRY**  
P.G. BHUKTE, M.J. CHADDHA AND J. MUKHOPADHYAY  
Paper presented in Xth Congress of ICSOBA-2008, Bhubaneswar, Nov. 28-30, 2008
100. **ROLE OF R&D IN INDIAN ALUMINIUM INDUSTRY**  
**J. Mukhopadhyay**, presented at National Seminar on Non – Ferrous Metals and Global Melt Down – India's Strategies, Organised by Non Ferrous Division and Hyderabad Chapter of The Indian institute of Metals, Hyderabad, June 23 & 24, 2009.



101. **EFFECTIVE UTILISATION OF ALUMINIUM INDUSTRY WASTE**  
**J. Mukhopadhyay**, presented at National Seminar on Management & Utilisation of Wastes jointly organized by IIM Kolkata Chapter & Millenium Institute of Energy & Environment Management at Kolkata, April 11, 2009
102. **REFRACTORY INDUSTRY IN INDIA –PROBLEMS & PROSPECTS**  
**J. Mukhopadhyay**, M.J. Chaddha, P.G. Bhukte, S.B. Rai & B. Sen, presented in the National Seminar on “Refractory Raw Materials & Products: Problem & Prospects”, CGCRI, Kolkata, August 21-22, 2009
103. **COMMERCIALLY VIABLE ALUMINIUM ALLOYS FOR ECO FRIENDL APPLICATION**  
**J. Mukhopadhyay**, presented at the Course jointly organized by National Academy of Defence Production, Nagpur & Networking Resource Centre for Materials (NRC-M), Dept. of Materials Engineering, IISc, Bangalore on “Latest Trend in Aluminium Alloys, Composites & Nano-Smart Materials”, Bangalore, October 26, 2009
104. **NEUTRALISATION OF BAUXITE RESIDUE FOR ITS SAFE DISPOSAL**  
Suchita .B. Rai, Kailas L. Wasewar, M.J. Chaddha, Biswanath Sen, **J. Mukhopadhyay**  
Published in Indo-Italian Conference on Emerging Trends in Waste Management Technologies (ETWMT-2009) MAEER’s MIT College of Engineering, Pune & Maharashtra Institute of Technology, Pune, Dec. 3-4, 2009
105. **RED MUD UTILISATION – A FOCUSED REVIEW**  
Suchita .B. Rai, M.J. Chaddha, Biswanath Sen, Kailas L. Wasewar, **J. Mukhopadhyay**  
Published in Indo-Italian Conference on Emerging Trends in Waste Management Technologies (ETWMT-2009) MAEER’s MIT College of Engineering, Pune & Maharashtra Institute of Technology, Pune, Dec. 3-4, 2009
106. **REFRACTORIES FOR ALUMINUM INDUSTRY**  
**J. Mukhopadhyay**, Lead lecture presented at 8<sup>th</sup> India International Refractory, Congress 2010 held in Kolkata on February 4 – 6, 2010.
107. **FUTURE POTENTIAL OF ALUMINIUM IN CIVIL APPLICATIONS AND RECYCLING OF ALUMINIUM IN INDIA’S PERSPECTIVE**  
**J. Mukhopadhyay**, Key lecture presented at the **Mission Metallurgy India 2010** held on February 11, 2010 in Bombay Exhibition Centre, Mumbai.
108. **R&D CHALLENGES WITH RESPECT TO ENERGY, ENVIRONMENT AND WASTE MANAGEMENT IN ALUMINIUM SECTOR**  
**J. Mukhopadhyay**, presented in One day seminar on “Consultation with stakeholders on Aluminium Mission Plan 2010-2020” at New Delhi on 1st December, 2010
109. **MANAGEMENT OF BAUXITE RESIDUE**  
**J. Mukhopadhyay** Presented to the experts of Asia-Pacific Partnership on Clean Development and Climate held at Canberra, Australia, January 10-11, 2011
110. **ACTIVITIES AT JNARDDC WITH SPECIAL REFERENCE TO DOWNSTREAM AREAS ON ALUMINUM ALLOYS**  
**J. Mukhopadhyay**, Presented at CSIRO, Australia, January 12, 2011
111. **NEUTRALISATION OF RED MUD USING SUPERPHOSPHATE, COAL DUST AND GYPSUM FOR ITS SAFE DISPOSAL AND ITS UTILISATION FOR VEGETATION**  
Suchita B. Rai, Kailas L. Wasewar, M.J. Chaddha, R.S. Mishra, S.U. Bagde and **J. Mukhopadhyay**  
Published in 5<sup>th</sup> International Congress of Chemistry and Environment “ICCE-2011” organised by Research Journal of Chemistry and Environment at Malaysia from 27<sup>th</sup> to 29<sup>th</sup> May 2011

112. **MODIFICATION AND UTILISATION OF DRIED RED MUD FOR CONSTRUCTION OF VEGETATION COVER**  
Suchita B. Rai, Kailas L. Wasewar, M.J. Chaddha, R.S. Mishra and **J. Mukhopadhyay**  
Research article Published in Research Journal of Engineering and Technology 2(3): July-Sept. 2011
113. **EFFECTIVE UTILIZATION OF INDUSTRIAL WASTES INTO VALUE ADDED PRODUCT WITH RESPECT TO THE SUSTAINABILITY OF ALUMINIUM INDUSTRY**  
**J. Mukhopadhyay**, B.K. Satpathy, M.J. Chaddha, M.T. Nimje, M. Najjar and U. Singh, presented in the Plenary Session of 6<sup>th</sup> International Conference & Exhibition on Aluminium, INCAL-2011 organised by Aluminium Association of India during December 6-8, 2011 at Hyderabad.
114. **CASE STUDIES ON COMMERCIAL VIABILITY OF ALUMINIUM FOIL FOR PACKAGING INDUSTRY**  
**J. Mukhopadhyay**, presented in the International Conference on Invention, Innovation & Technology – ICIT-2012 jointly organised by IAPQR & CGCRI Kolkata, January 20, 2012
115. **NEUTRALIZATION AND UTILIZATION OF RED MUD FOR ITS BETTER WASTE MANAGEMENT**  
Suchita Rai, K.L. Wasewar, and J. Mukhopadhyay, published in Archives of Environmental Science (2012) 6, 13-33