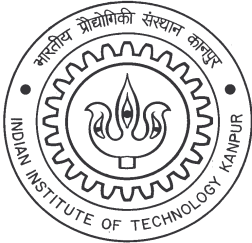


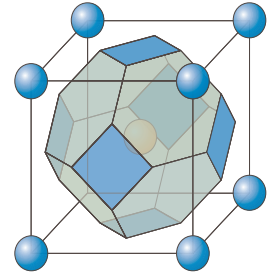
AWARD RESULTS



METALLO-2007

Outreach Centre

Indian Institute of Technology Kanpur



POSTER SESSSION SCHEDULE

08 December 2007

Category	Theme
A	Microstructural and Phase Evolution
B	Mechanical Properties
C	Powder Metallurgy and Sintering
D	Nanomaterials
E	Corrosion and Oxidation
F	Modeling

09 December 2007

Category	Theme
G	Material Processing
H	Application and Process Overview
I	Characterization
J	Steels
K	Intermetallics and Electronic Materials

Category A: Microstructural and Phase Evolution

FIRST PRIZE

- A.1** Recrystallization of Epitaxial GaN under Indentation (P-2)
S. Dhara, C.R. Das, H.C. Hsu, L.C. Chen, Baldev Raj, K.H. Chen, U. Borah, A.K. Bhaduri, S.K. Albert, A. Ray
IGCAR, KALPAKKAM

SECOND PRIZE

- A.8** Microstructure Development and Properties of WC-ZrO₂ Nanocomposites (P-72)
A. Mukhopadhyay, B. Basu, K. Biswas, K. Chattopadhyay
IIT KANPUR

THIRD PRIZE

- A.12** Microstructure Evolution due to Fatigue Loading in a Multiphase Medium Carbon Microalloyed Steel (P-101)
S. Sankaran, Gouthama, K.A. Padmanabhan
IIT MADRAS
-

Category B: Mechanical Properties

FIRST PRIZE

- B.11** Self Accommodation in Ni-Ti Shape Memory Alloy (P-103)
J. Bhagyaraj, Gouthama
IIT KANPUR

SECOND PRIZE

- B.8** A Comparative Study on Mechanical Properties of Ultrafine-Grained Al 6061 and Al 6063 Alloys Processed by Cryo-Rolling (P-78)
S.K. Panigrahi, Devanand, R. Jayaganthan
IIT ROORKEE

THIRD PRIZE

B.12 Comparative Study of the Effect of Sintering Temperature on
Densification, Mechanical and Tribological Properties of Cu-Pb
Alloys (P-119)

P. Dash, A. Upadhyaya

IIT KANPUR

Category C: Powder Metallurgy and Sintering

FIRST PRIZE

C.4 Development of High Density Uranium Intermetallics and Alloys as
Dispersion Fuel for the Research and Test Reactors (P-44)

V.P. Sinha, G.P. Mishra, S. Pal, P.V. Hegde, G.J. Prasad

BARC, PUNE

SECOND PRIZE

C.8 Microwave Sintering of Tungsten Heavy Alloys (P-92)

A. Mondal, A. Upadhyaya, B. Sarma

IIT KANPUR

THIRD PRIZE

C.2 Compressive Behavior of Aluminum Alloy Foam and Aluminum-SiC
Composite Foam (P-28)

K.L.A. Khan, P. Mahajan, R. Prasad

IIT DELHI

Category D: Nanomaterials

FIRST PRIZE

D.5 Microhardness of Laser Ablated Alumina Coating on ‘
Ti-6Al-4V (P-27)

Sujaya C, G. Umesh, H.D. Shashikala

NITK, SURATHKAL

SECOND PRIZE

D.4 Effect of Dislocation Stress Fields on the Effective Elastic Modulus of
Nanocrystals (P-26)

*Md. Z. Khan Yusufzai, S.K. Sharma, A. Rathore,
Anandh Subramaniam
IIT DELHI*

THIRD PRIZE

D.2 Synthesis of Nano Size WC-Co Composite by Carbothermic Reduction (P-10)
*A. Kumar, K. Singh, O.P. Pandey
TIET, PATIALA*

Category E: Corrosion and Oxidation

FIRST PRIZE

E.13 Structural Characterization and Corrosion Behavior of $Tb_{0.3}Dy_{0.7}Fe_{1.92}$ (P-107)
*D. Sachdeva, R. Balasubramaniam
IIT KANPUR*

SECOND PRIZE

E.12 Electrochemical behaviour of Microwave Sintered Graphite Added Austenitic and Ferritic Stainless Steel (P-102)
*C. Padmavathi, G. Joshi, A. Upadhyaya, D. Agrawal
IIT KANPUR*

THIRD PRIZE

E.9 Electrochemical Evaluation of the Synergistic Effect of Molybdate-Tungstate Inhibitor Mixtures in Chlorid ion Medium and Effect of Cl- ion on Inhibition Efficiency of Molybdate (P-87)
*M. Sharma, A.V. Ramesh Kumar, N. Singh
DMSRDE, KANPUR*

THIRD PRIZE

E.8 Oxidation Behavior of Novel Rail Steels (P-86)
*B. Panda, S. Mahapatra, R. Balasubramaniam
IIT KANPUR*

Category F: Modeling

FIRST PRIZE

F.5 Effect of Discretization and Finite Nuclei Radius on Kolmogorov-Johnson-Mehl-Avrami Isothermal Kinetics (P-67)

I. Sinha, R.K. Mandal

IT BHU, VARANASI

Category G: Material Processing

FIRST PRIZE

G.7 Synthesis, Crystallization, Magnetic and Corrosion Behavior of Fe-Based Metallic Glass (P-63)

B. Vishwanadh, D. Srivastava, G.K. Dey, R. Balasubramaniam

BARC MUMBAI

SECOND PRIZE

G.9 India's Largest Metal Buddha Statue at Rabong: Materials and Manufacturing Methodology (P-85)

T. Takarpa, C. Zangpo, N. Pradhan, Gautam, R. Balasubramaniam

M. CHOKERLINE MANAGEMENT AND DEV. CO., SIKKIM

Category H: Application and Process Overview

FIRST PRIZE

H.12 Development of Textured Single Layered and Multi-Layered Coated Superconductor Substrates by P/M Route (P-117)

P.P. Bhattacharjee, R.K. Ray, A. Upadhyaya

IIT KANPUR

SECOND PRIZE

H.7 Arsenic Removal from the Synthetic solution in Two Stages (P-66)

Abha Kumari

DELHI COLLEGE OF ENGINEERING

THIRD PRIZE

H.4 Removal of Cd (II) and Pb (II) from Aqueous Environment using *Moringa Oleifera* Seeds as Biosorbent: A Low Cost and Eco-Friendly Technique for Water Purification (P-46)

P. Sharma

ANAND ENGG. COLLEGE, AGRA

Category I: Characterization

FIRST PRIZE

I.4 Metallographical Investigations of Iron Objects in Ancient Vidarbha Region of Maharashtra (P-61)

P.P. Deshpande

SINHGAD INST. OF TECHNOLOGY, PUNE

SECOND PRIZE

I.6 Microstructural Study of Galvanized Coatings Formed in Pure as well as Commercial Grade Zn Baths (P-68)

G.K. Mandal, D. Mandal, S.K. Das, R. Balasubramaniam,

S.P. Mehrotra

NML JAMSHEDPUR

THIRD PRIZE

I.7 Understanding the Wear Properties of WC-ZrO₂ Nanocomposites (P-73)

T. Venkateswaran, D. Sarkar, B. Basu

IIT KANPUR

Category J: Steels

FIRST PRIZE

J.2 Effect of Scanning Speed and Nozzle Stand-Off Distance on Laser Surface Alloyed Martensitic Stainless Steel (P-35)

R.C. Shivamurthy, M. Kamaraj, R. Nagarajan, S.M. Sharrif,

G. Padmanabham

IIT MADRAS

SECOND PRIZE

J.4 Ultrasonic Behaviour of Plastically Deformed and Heat Treated Steel (P-53)

S.K. Chaudhary, V.K. Sinha

NIFFT, RANCHI

THIRD PRIZE

J.8 Production of High Strength Rail (P-84)

R. Shukla, S. Kumar, U.P. Singh, G.M.D. Murty, J. Singh

RDCIS, RANCHI

Category K: Intermetallics and Electronic Materials

FIRST PRIZE

K.3 A Computational Study and Experimental Validation of Zone Refining Process for Ultra-Purification of Gallium for Opto-Electronic Applications (P-47)

K. Ghosh, V.N. Mani, S. Dhar

UNIV. OF CALCUTTA

SECOND PRIZE

K.6 Thermodynamic Study of Bulk Metallic Glass:

$Zr_{41.2}Ti_{13.8}Cu_{12.5}Ni_{10.0}Be_{22.5}$ (P-60)

P.K. Singh, K.S. Dubey

IT BHU, VARANASI