

*International Conference*

*On*

**Advances in  
Materials and Processing  
Challenges and Opportunities**

**(AMPCO 2012)**

**2-4 Nov 2012**



*Golden Jubilee  
1963-2012*



**Organized by**

Department of Metallurgical and Material Engineering  
Indian Institute of Technology Roorkee  
Roorkee-247667, INDIA

**Technical Scope**

AMPCO 2012 is organized as a part of the Golden Jubilee celebration of the Department of Metallurgical and Materials Engineering to show case recent advances in Materials Processing and their Applications. In keeping with the research interests of the Department AMPCO 2012 will provide an up-to-date scientific and technical conference covering broad areas of interest in engineering materials and processing. Original contributions in the form of oral/poster presentations are invited in the areas listed below:

**Group A: Materials and Processing**

Metals and Metal Matrix Composites  
Ceramics and Ceramic Composites  
Polymers and Polymer Composites  
Metal Casting  
Powder Processing Technique  
Welding and Joining Techniques  
Coating and Thermal Spray  
High Energy Forming  
Superplastic Forming  
Mechanical Processing

**Group B: Properties and Applications**

Materials Characterization  
Adhesion and Interfaces  
Contact Surface Mechanics and Fracture  
Impact Behavior of Materials  
Wear and Tribology  
Nanotechnology  
Smart Materials and Structures  
Electronic and Magnetic material  
Non-destructive Inspection Techniques  
Other Properties and Applications

The conference shall provide an excellent platform for knowledge sharing to equip the modern researcher to face the challenges and opportunities of the future.

## Call for Papers

The organizing committee welcomes original technical paper submissions for oral or poster presentations. Abstracts are to be submitted by March 30, 2012. The official language will be English. Papers which qualify peer review will be published in an International Journal. For further details please see the conference website.

## Registration Fees:

Type	Early bird---- Before Aug 30, 2012	After Aug 30, 2012
Foreign Delegate	USD 450	USD 500
Accompanying person	USD 75	USD 100
For Foreign students	USD 350	USD 400
Members of SARC country	Rs.12000	Rs.15000
Indian Delegate	Rs.4500	Rs.5000
Accompanying person	Rs.750	Rs.1000
Indian student	Rs.1500	Rs.2000

The registration fees include registration kit, local transport, working lunch and dinner during conference days.

## The mode of payment

Registration fee can be paid either using demand draft or direct transfer (remittance) using the following information:

- Demand draft should be in favour of AMPCO 2012 payable at punjab national bank IITR Branch Roorkee, India.
- For local direct transfer
- Account Number:4044000100148042
- Branch Code: 4044

- RTGS/IFSC code: PUNB0404400
- Account Name: Conference/Seminars/Workshop IIT Roorkee
- For any foreign remittance please provide the following information to your bank:
- Account Name: Foreign Contribution, IIT Roorkee
- Account number: 4044000100040407
- Bank Branch: punjab national bank, IIT Roorkee  
Branch Code: 4044
- SWIFTcode:PUNBINBBARKU

## Post tour programmes

The site seeing tours to places such as Mussoorie, Hardwar, Rishikesh, Agra, Delhi, Jaipur etc. may be organised if sufficient number of delegates are interested. Additional charges apply. For details visit [www.iitr.ernet.in/XXXX](http://www.iitr.ernet.in/XXXX)

## Sponsorship Opportunities

The conference provides a unique opportunity for sponsoring organizations to promote their products/services to the focused international and national audience besides having an excellent opportunity to interact with engineers/scientists / academia during entire conference duration.

Category of sponsorship	Amount for Indian Companies (Rs.)
Golden Sponsorship <sup>1</sup>	1,00,000
Silver Sponsors <sup>2</sup>	75,000
Sponsors for Lunch <sup>3</sup>	50,000
Sponsors for Cultural Programme <sup>4</sup>	30,000
Sponsors for each Session <sup>5</sup>	10,000



1. Logo in website, souvenir and proceedings. One page profile in the souvenir. Full page colour advertisement in the souvenir. Free registration for five delegates
2. Logo in website, souvenir and proceedings. Full page black and white advertisement in the souvenir Free registration for three delegates
3. Announcement with logo in the lunch invitation card. One page advertisement in Souvenir (B & W) Free registration for two delegates Banner display during lunch
4. Announcement with logo in the invitation card. Free registration for one delegate Banner display on stage during the cultural programme
5. Announcement during beginning and end of each session. Free registration for one delegate Banner display during the session

### **Advertisement Rates for Souvenir**

<b>Page</b>	<b>Indian (Rs.)</b>
Outside Back Cover	15,000
Inside Cover Pages	12,000
Special Colour Pages	10,000
Full Page (B & W)	5,000
Half Page ( B & W)	3,000

### **Exhibition**

Limited stalls are being made available where exhibitors can display relevant products at the rate of Rs. 30,000/- per stall of size 3x 2 metres. Each exhibitor is entitled to register two delegates free of cost.

### **ABOUT ROORKEE**

Roorkee town (Longitude: E77 53' and latitude: N29 52' 00', Average elevation: 268 above the mean sea level) is situated 50 km south of lower Himalayan range and is in the district of Haridwar in Uttarakhand state. It is considered to be the gateway to pilgrimage centres of many renowned places like Haridwar, Rishikesh and hill stations such as Mussoorie. Roorkee is well connected by roads and is located at 180 km north of New Delhi. Roorkee is connected to New Delhi by road and rail. Busses to Dehradun/ Haridwar/Rishikesh from ISBT, New Delhi pass through Roorkee. Taxi service is also available from Indira Gandhi International Airport and ISBT. The superfast Dehradun Shatabdi and Janshabdi Express are the most convenient mode of travel to Roorkee. The minimum and maximum temperature during December varies 15 to 25°C .

### **ABOUT THE INSTITUTE**

The Indian Institute of Technology (IIT), Roorkee is the successor of the University of Roorkee, the oldest technical institute of the Indian sub-continent. It was established as the Roorkee College in 1847 and rechristened as the Thomson College of Civil Engineering in 1854. Recognizing its yeoman contribution for the development of the country for over 100 years, this temple of learning was elevated to the status of a University, the first technical university in India in 1949. The University of Roorkee was converted to IIT Roorkee by the Government of India on September 21, 2001, thereby further elevating it to an institute of national importance. Over the years it has built up and maintained an excellent academic reputation. The IIT Roorkee has academic departments in the area of Engineering, Sciences, Architecture, Management, Humanities and Social Sciences besides many centres of higher education and research.

## **ABOUT THE DEPARTMENT**

The Department of Metallurgical and Materials Engineering was established in 1963 with the intake of sixty students for undergraduate curriculum leading to Bachelors degree. Later, post-graduation curriculum was started in 1969. The Department has been actively involved in research since its inception and the first award of PhD degree is recorded in 1972. Earlier, the faculty members were engaged in research in the areas of Physical Metallurgy, Thermodynamics and Kinetics of Metal extraction and Powder Metallurgy. In the early 70's, a number of new faculty members joined and started activities in the areas of Ferrites, Composite Materials and Electroless coatings of amorphous and microcrystalline Ni-P and Co-P. It was increasingly realized that the barriers between Metals, Ceramics and Polymers needs to be broken and an integrated approach to Materials should be evolved. The name of the Department was changed from Department of Metallurgy to Department of Metallurgical and Materials Engineering in the year 2001 with the introduction of courses in Polymers and Ceramics at the curriculum level and through research in Metal-Ceramic composites and dissimilar materials joining.

Currently there are 22 faculty members guiding about 40 research scholars in diverse areas of materials research. The Department annual intake is about 100 students in the BTech program and 30 students in the M.Tech Program.

## **Organizing Committee**

<b>Patron</b>	Prof. P. Banerji
<b>Chairman</b>	Prof. P.K. Ghosh
<b>Convener</b>	Prof. Surendra Singh
<b>Co-Convener</b>	Prof. R. Jayaganthan
<b>Org. Secy.</b>	Prof. B.S.S. Daniel
<b>Jt. Org. Secy.</b>	Prof. G.P. Chaudhari
<b>Treasurer</b>	Prof. Anjan Sil

### **Contact:**

Phone: +91-1332-285734,285606

Fax: +91-1332-285243

Conference Secretariate:

e-mail: [ampco2012@iitr.ernet.in](mailto:ampco2012@iitr.ernet.in)

web: [www.iitr.ac.in/ampco/ampco.pdf](http://www.iitr.ac.in/ampco/ampco.pdf)

### **Postal address**

Convener  
AMPCO-2012  
Dept. of Metallurgical and Materials Engineering  
Indian Institute of Technology Roorkee  
Roorkee-247667, INDIA

### **ABOUT ACCOMODATION**

Limited accommodation is available in the Institute Guest House and student hostels. The accommodation in the following hotels are also available.

<http://www.iitr.ac.in/ampco/ampco.pdf>



## INFORMATION ABOUT HOTELS

### Motel Polaris

Delhi-Haridwar National Highway-58  
Roorkee-247667

Tel. No.: +91-1332-272648, 277701

Fax: +91-1332-277702

E-mail: [stay@motelpolaris.com](mailto:stay@motelpolaris.com),  
[reservationmotelpolaris@hotmail.com](mailto:reservationmotelpolaris@hotmail.com)

1. **Presidential Suites:**  
Rs. 4500.00 per suite/per day (04  
Nos. available

2. **Executive club room**  
Single occupancy:  
Rs. 1800 per day/per room  
Double occupancy:  
Rs. 2250 per day/per room
3. **Super Executive club:**  
Single/double occupancy:  
Rs. 2500.00 per day/per room
4. **Deluxe room**  
Single occupancy:  
Rs. 1400 per day/per room  
Double occupancy:  
Rs. 1600 per day/per room

### Hotel Center Point

22/224, Civil Lines, Roorkee Talkies  
Road, Roorkee-247667

Tel. No.: +91-1332-273040, 274050

Fax: +91-1332-273040

E-mail: [hotelcp@in.com](mailto:hotelcp@in.com)

1. **Executive room**  
Single/double occupancy:  
Rs. 2500 per day/per room
2. **Superior room:**  
Single occupancy:  
Rs. 1700 per day/per room  
Double occupancy:  
Rs. 1900 per day/per room
3. **Deluxe room**  
Single occupancy:  
Rs. 1500 per day/per room  
Double occupancy:  
Rs. 1700 per day/per room

### Hotel Centrum

Delhi Road, Roorkee -247667

Tel. No.: +91-1332-242422, 242411

E-mail: [hotescentrum@yahoo.in](mailto:hotescentrum@yahoo.in)

1. **Suite:**  
Rs. 4000.00 per suite/per day
2. **Executive suite:**  
Rs. 3500 per day/per suite
3. **Deluxe room**  
Rs. 2500 per day/per room

### Hotel Dynasty

Opp. Bus Stand, Roorkee -247667

Tel. No.: +91-9897060343,9897008844

E-mail: [prem.dynasty@gmail.com](mailto:prem.dynasty@gmail.com)

1. **AC room:**  
Rs. 800.00 per room/per day
2. **Non AC room:**  
Rs. 600 per day/per room