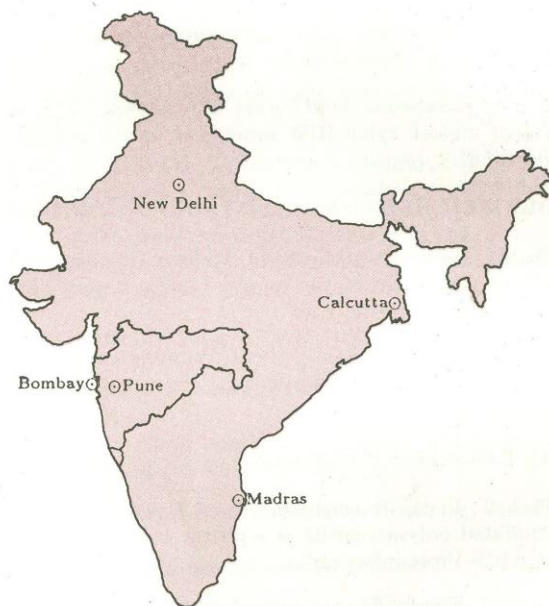


THE VENUE : PUNE



The symposium will be held at the National Chemical Laboratory situated on a breezy plateau in the western outskirts of Pune (altitude 560 metres, prominent education centre, population 1.8 million). The climate during January is very pleasant with temperatures in the range of 10°—20°. Pune is about 190 kilometres from Bombay and is well connected by road and rail to most other cities.

● Brought out by : DTS, National Chemical Laboratory, Pune 411 008, India.

POLYMERS '91

1-4 JANUARY 1991

SECOND CIRCULAR



NATIONAL CHEMICAL LABORATORY

PUNE 411008 INDIA

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S.H. Iqbal (Treasurer, NCL, Pune)

POLYMERS '91
JANUARY 1-4, 1991
NATIONAL CHEMICAL LABORATORY,
PUNE-411 008, INDIA.

Dear Colleague,

We are pleased to inform you that the response to our call for papers for 'Polymers '91' has been overwhelming. We have had over 280 contributed abstracts. About 50 invited and contributed papers have been received from abroad. Preparations are in full progress. Details of the scientific programme will be communicated shortly. The symposium will consist of plenary and invited lectures to be presented by leading experts as well as contributed original papers and poster sessions.

We hope that you and your colleagues will participate in the symposium. We look forward to welcoming you in Pune.

Yours truly,
The National Organising Committee

SCIENTIFIC PROGRAMME

1. Topics

- Session A : Polymerization Chemistry
- Session B : Synthesis and Modification of Polymers
- Session C : Structure and Properties
- Session D : High Performance Polymers
- Session E : Polymer Blends, Alloys and Composites
- Session F : Bio-related Polymers

The scientific sessions except the plenary and invited lectures will be held in parallel.

2. Slide and Overhead Projectors

Both slide and overhead projectors are available in each session room. Please use either of them at your presentation. Slides should be of a size of 50 mm x 50 mm and a thickness of less than 2 mm. The slide projector is operated by a projectionist, and speakers are kindly requested to bring their slides to the reception desk of their session room at least 30 minutes before their presentations. The overhead projector must be operated by the speaker.

3. Presentation Time

Allotted oral presentation time is as follows :

Presentation + discussion = Total			
Plenary Lectures	40 min	-	40 min
Invited Lectures	25 min	5 min	30 min
Contributed papers	15 min	5 min	20 min

4. Publication

All papers and posters will be published in two volumes by Tata McGraw Hill and will be distributed world wide by McGraw Hill's international network.

5. Exhibition

There will be a display of analytical and testing equipments related to polymers by reputed Indian and international companies during the symposium.

TENTATIVE SCHEDULE

Tuesday, January 1, 1991

0800 - 0845	Registration
0845 - 1000	Inauguration
1000 - 1015	Coffee
1015 - 1300	Lectures
1300 - 1345	Lunch
1345 - 1545	Lectures
1545 - 1600	Tea
1600 - 1745	Lectures

Wednesday-Friday, January 2-4, 1991

0845 - 1045	Lectures
1045 - 1100	Coffee
1100 - 1300	Lectures
1300 - 1345	Lunch
1345 - 1545	Lectures
1545 - 1600	Tea
1600 - 1745	Lectures

Poster display and viewing times will be announced later.

GENERAL INFORMATION

1. Passport and Visa

All participants from outside India need valid passports and visas. Please enquire at the nearest Indian embassy or consulate office, if necessary. It may take several weeks to obtain a visa.

2. Climate and Clothing

The weather in Pune in January is very pleasant. The temperature range from a low of 10°C (50°F) to a high of 20°C (70°F). Light woollens, especially in the evenings, are recommended. Informal dress is customary.

3. Registration Fees

Foreign participant	US \$ 100.00
Indian participant	Rs. 1,000.00
Indian participant (Universities)	Rs. 250.00
Bonafide students	Rs. 150.00

Registration fee should be sent before **November 30, 1990** by crossed cheque or demand draft to Convenor / Treasurer, Polymers '91, National Chemical Laboratory, Pune-411 008, India.

4. Transportation

NCL is situated about 8 km from Pune railway station and 17 km from the airport. Transportation will be provided for delegates arriving at the airport/railway station on Monday (December 31) and Tuesday (January 1).

5. Accommodation

Accommodation is available in hotels at Pune. Current tariffs (subject to change) are as follows (\$ = Rs. 17.30).

Grades	Single Bed	Double Bed
A	Rs.495 to 1050	Rs.595 to 1175
B	Rs.250 to 350	Rs.350 to 450
C	Rs.100 to 200	Rs.150 to 300

Please fill in the enclosed form and return to Convenor, Polymers '91 before September 30, 1990. Requests received thereafter may be difficult to comply with.

6. Reception

Reception booths will be set up at the Bombay airports (domestic and international), Pune airport and Pune railway station. Kindly contact the reception booth in case of difficulty.

7. Address for Correspondence

**Polymers '91 Secretariat,
Attn : Dr. S. Sivaram, Convenor,
National Chemical Laboratory,
Pune-411 008, India**

**Telephone : O : 335234, R : 334430
Telex : 0145-266, 0145-586
Fax : 0212-330233, 0212-334761
Gram : Chemistry**

PLENARY / INVITED LECTURES

A. POLYMERIZATION CHEMISTRY

- Prof. J.P. Kennedy, University of Akron, Akron, USA
"Living Cationic Polymerization".
- Prof. A. Zambelli, University of Salerno, Baronissi, Italy
"Stereospecific polymerization of olefins : Reaction mechanism and polymer Structure".
- Dr. P. Locatelli, Institute of Macromolecules, Milan, Italy
"Heterogeneous Ziegler Natta catalysts : Stereochemistry of first polymerization step".
- Dr. T. Simonazzi, Himont Italia, Ferrara, Italy
"A new horizon for Ziegler Natta catalysts : From commodities to tailor made polymers".
- Dr. U. Zucchini, Himont Italia, Ferrara, Italy
"New development of Ziegler Natta catalysts for ethylene polymerization".
- Prof. G. Wulff, University of Dusseldorf, Germany
"Chirality and optical activity of vinyl polymers".
- Dr. M. Terano, Toho Titanium Co., Japan
"Stopped flow polymerization of olefins with active $MgCl_2$ supported catalysts".
- Prof. M. Imai, Tokyo Institute of Technology, Tokyo
"Recent progress in the new synthetic methods for condensation polymers".
- Prof. F. Dyachkovskii, Institute of Chemical Physics, Moscow, USSR.
"Synthesis of polyolefins with catalysts supported on the inorganic and organic surfaces".
- Prof. G.P. Belov, Institute of Chemical Physics, Moscow, USSR
"Synthesis and properties of the alternate copolymer of ethylene and carbon oxide".

- Prof. V. Zhakarov, Institute of Catalysts, Novosibirsk, USSR
"Copolymerization of ethylene with alpha olefins over highly active titanium-magnesium catalysts".
- Prof. Z. Shen, Zhejiang University, Hangzhou, P.R.China
"Polymer synthesis by rare earth catalysts".
- Prof. J. Seppala, Neste Chemicals, Finland
"Alkoxysilanes as external donors in propylene polymerization using high yield Ziegler Natta catalysts".

B. SYNTHESIS AND MODIFICATION OF POLYMERS

- Prof. J. Lemaire, Laboratoire de Photochimie, University of Blaise Pascal, France
"Mechanism of the photooxidation of weathering of unsaturated elastomers".
- Prof. J.M.J. Frechet, Cornell University, Ithaca, New York, USA
"Synthesis of novel hyperbranched polymers with highly controlled molecular architecture".
- Prof. D.C. Sherrington, University of Strathclyde, UK
"Design and synthesis of novel polymer supports".
- Prof. G. Geuskens, University of Bruxelles, Brussels
"Degradation and stabilization of polymers".

C. STRUCTURE AND PROPERTIES

- Prof. G. Montuado, Institute La Chimica La Technologica dei Materiali Polimerici, Catania, Italy
"Recent advances in mass spectrometry of polymers".
- Prof. M. Muthukumar, University of Massachusetts, Amherst, USA
"Thermodynamics and dynamics of polymer solution".
- Dr. Y.P. Khanna, Allied Signal Inc., Morristown, NJ, USA
"Product and process development through analytical research".

- Prof. D. Patterson, McGill University, Montreal, Canada
"Thermodynamics of interaction in polymer systems".
- Prof. G. Delmas Patterson, University of Quebec, Canada
"Characterization of polymers through LCST".
- Dr. F.W. Wang, National Institute of Standards and Technology, Maryland, USA
"Application of fluorescence spectroscopy in polymer science and technology".
- Prof. A.H. Windle, Cambridge University, UK
"Crystallization of thermotropic random copolymers".
- Prof. S. Fakirov, University of Sofia, Bulgaria
"Deformation behavior of polyether ester thermoplastic elastomers as revealed by small angle X-ray scattering".

D. HIGH PERFORMANCE POLYMERS

- Dr. C. Noel, Laboratoire de Structure et. Macromoléculaire, Paris, France
"Side chain liquid crystalline polymers : Orientation in electric fields and non linear optical properties".
- Prof. H.R. Kricheldorf, Universität Hamburg, Hamburg, Germany
"Polycondensation of silylated monomers".
- Prof. Y. Imai, Tokyo Institute of Technology, Tokyo
"Recent advances in synthesis of new high temperature aromatic polymers".
- Prof. S.V. Vinogradova, Nesmeyanov Institute of Organometallic Compounds, Moscow, USSR
"Synthesis of cardopolymers".
- Dr. B.K. Patnaik, Hercules Advanced Materials, Wilmington, USA
"Recent developments in RIM polymers".

- Prof. A.S. Abhiraman, Georgia Institute of Technology, Atlanta, USA
"Critical issues in the formation of PAN based carbon fibers".
- Prof. F. Svec, Institute of Macromolecular Chemistry, Prague, Czechoslovakia
"Polymeric separation media for chromatography in an innovative shape : Membranes".
- Dr. K. Akkapeddi, Allid Signal, Morristown, NJ, USA
"High impact nylon RIM using new hybrid polyols as reactants".

E. POLYMER BLENDS, ALLOYS AND COMPOSITES

- Dr. R. Shastri, Dow Chemical, Midland, Michigan, USA
"Evaluation of interfacial components for immiscible or partially miscible blend pairs".
- Dr. P.M. Subramanian, DuPont, Wilmington, USA
"Polymer blends : Morphology and permeability barrier properties".

F. BIO-RELATED POLYMERS

- Prof. T. Uryu, University of Tokyo, Japan
"Sulfated polysaccharide as a potent and selective inhibitor of AIDS-Virus infection".
- Prof. T. Kondo, Science University of Tokyo, Japan
"Polymer capsules : Their preparation and properties".
- Prof. A.S. Hoffman, University of Washington, Seattle, USA
"Polymer materials applied to medicine and biotechnology".
- Dr. J. Heller, Stanford Research Institute, Menlo Park, California, USA
"Development and utilization of biodegradable poly (ortho esters)".

POLYMERS '91 Hotel Reservation Form

Mr/Mrs/Miss Phone:

Please type your mailing address in the frame.

Please reserve room(s) as follows:

Grade	Type	Number of room(s)
<input type="checkbox"/> A <input type="checkbox"/> B	<input type="checkbox"/> Single	
<input type="checkbox"/> C	<input type="checkbox"/> Twin	
Staying days: Check in _____		
Check out _____		
Name of roommate: Mr. Mrs. Miss _____		

date:

signature:

mail to the Secretariat by September 30th, 1990

Stamp

POST CARD

VIA AIR MAIL

to:
Dr. S. Sivaram
Convenor - Polymer'91
National Chemical Laboratory
Pune 411 008
INDIA