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Meetings

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Meetings

POLYMER CONFERENCE SERIES

May 21–June 29, 1979

State University of New York

May 21–25

“Understanding Polymer Science: Preparation, Properties, and Applications”

Course Coordinator—Dr. Kenneth Smith Chairman, Department of Chemistry, SUNY College of Environmental Science and Forestry, Syracuse, New York

June 4–8

“Advances in Polymer Synthesis, Modification, and Characterization”

Course Coordinator—Dr. Joseph P. Kennedy, Institute of Polymer Science, University of Akron, Akron, Ohio

June 11–15

“Polymers in Electronic Applications: Photopolymers, Photoconductors, Conductors and Insulators”

Course Coordinator—Dr. Donald A. Seanor, J. C. Wilson Center For Technology, Xerox Corp., Webster, New York

June 18–22

“Advances in the Stabilization and Controlled Degradation of Polymers”

Discussion Leaders—Dr. Frank Mayo, Stanford Research Institute, Menlo Park, California; Prof. J. Reid Shelton, Case–Western Reserve University, Cleveland, Ohio; Dr. David M. Wiles, Director, National Research Council of Canada, Ottawa, Canada

June 25–29

“Understanding and Assessing Paper and Fibrous Structures”

Course Coordinator—Dr. Philip Luner, Empire State Paper Research Institute, SUNY College of Environmental Science and Forestry, Syracuse, New York

For further information, contact: Dr. Angelos V. Patsis, Chairman, Department of Chemistry, State University of New York at New Paltz, New Paltz, N.Y. 12562—(914) 257-2175.

SHORT COURSE**DISPERSIONS OF PIGMENTS AND RESINS**

May 21-25, 1979

A short course, "Dispersion of Pigments and Resins in Fluid Media" will be held at Kent State University from May 21-25, 1979. The course is sponsored by the Rheology and Coatings Laboratory.

The program is divided into several areas: surface chemistry fundamentals, pigment-vehicle treatments, water and classic systems, and mechanics of dispersion. The lecturers will present the theoretical underpinnings of the physical chemical aspects of dispersion and stabilization, followed by the practical experiences with commercial systems and discussions on dispersion equipment and plant practices.

The program chairman, Carl J. Knauss, from the Chemistry Department at Kent State University, released the following program:

Monday, May 21

"Fundamentals of Dispersion Preparation", Dr. Richard J. Ruch, Kent State University; "Surfactants and HLB", Mr. William C. Griffin, ICI America, Inc.; "Polymeric Organic Chemicals as Dispersants for Pigments", Dr. Robert D. Athey, Jr., Carnegie-Mellon Institute of Research; "Surface Chemistry of Pigment-Vehicle Systems", Mr. Charles A. Kumins, Tremco Corporation.

Tuesday, May 22

"Methods of Dispersion Modification", Dr. Richard J. Ruch; "Dispersion of Classic Solvent Systems", Mr. George R. Pilcher, Sherwin-Williams Co.; "Pigment Dispersion Technology in Water-Base Systems", Dr. Robert F. Conley, Mineral and Resource Technology; "Particle Size Distribution Analysis of Pigments, Latexes and Coatings", Dr. Theodore Provder, Glidden Coatings and Resins Division, SCM Corporation.

Wednesday, May 23

"Mechanisms of Dispersion Stabilization", Dr. Richard J. Ruch; "Dispersion of TiO_2 as a Determinant of Hiding Power", Mr. Fred B. Stieg, Pigmentech Consulting; "Dispersion of Carbon Black and Other Pigments in Fluid Vehicle for Printing Inks", Dr. John W. Vanderhoff, National Printing Ink

Research Institute, Lehigh University; "Factors Governing Tinter Performance", Mr. Elio Cohen, Daniel Products Company.

Thursday, May 24

"Flow and Processing Mechanics of Liquid-Solid Systems", Mr. David G. Bosse, Maginet-Projects (duPont, Retired); "Practical Aspects of Compounding of Powder Coatings Formulations", Mr. Stan Jakopin, Werner Pfleiderer Corporation; "Theory and Application of Mixers in Blending and Dispersion", Dr. James Y. Oldshue, Mixing Technology of Mixing Equipment Company; "Principles of Ball and Pebble Milling", Mr. John M. Rahter, Paul O. Abbe, Inc.

Friday, May 25

"High Shear Dispersion and Sandmilling", Mr. William Hair, Morehouse Industries, Inc., "Elastomer-Black Interaction During Mixing", Mr. Merton Studebaker, Consultant.

Additional information can be obtained by writing Carl J. Knauss, Chemistry Department, Kent State University, Kent, Ohio 44242 or by calling (216) 672-2327.

SHORT COURSE NO. 397

FIBROUS COMPOSITE STRUCTURES

June 5-8, 1979

George Washington University, Washington, D.C.

This course is designed to familiarize engineers and research workers with the principles of fiber-reinforced composites and their application to structural design.

The course will give a balanced treatment of the mechanics of fibrous composite components and structures, and their structural analysis, design, testing and fabrication. Topics to be covered include micro- and macro-mechanics of composites, strength theories for composites, analysis, design and manufacturing techniques for composite structures.

Prerequisite: A degree in engineering, science of allied areas.

Fee: \$495.

For further information, please write to the Director, Continuing Engineering Education, George Washington University, Washington, D.C. 20052 or call (202) 676-6106 or toll free (800) 424-9773.

COATINGS AND POLYMER COURSE

June 11-15, 1979

A course, "Coatings and Polymer Characterization", will be held for the second year at Kent State University on June 11-15, 1979. The program will consist of lectures on analytical methods which will be divided into the areas of separation, spectroscopic and spectrophotometric techniques and physical characterization of coatings and polymers. A blend of fundamentals and applications will be presented by experts from university and industry.

A broad background of many analytical techniques with their most recent developments should be acquired by laboratory chemists and research supervisors in coatings and polymers. This program presents the opportunity to expand one's knowledge in the important analytical areas which are changing rapidly.

Further details can be obtained from the program chairman, Carl J. Knauss, Chemistry Department, Kent State University, Kent, Ohio 44242, or by calling (216) 672-2327.

The details of the program are listed below:

Monday, June 11

"Chemical Separations: An Overview", Dr. Mark S. Greenberg, Kent State University; "Organic Analysis of Polymers with Pyrolysis Gas Chromatography", John Q. Walker, McDonnell Douglas; "Use of Liquid Chromatography in Coatings and Polymers", Robert R. McGough, Waters Associates; "Gel Permeation Chromatography of Coatings and Polymers", Dr. Theodore Provider, Glidden Coatings and Resins, Div. SCM Corporation.

Tuesday, June 12

"Modern Spectroscopic Techniques for Coatings and Polymers", Dr. Jack L. Koenig, Case-Western Reserve University; "Structural Determination of Polymers Using Nuclear Magnetic Resonance", Dr. Charles J. Carman, B. F. Goodrich Company; "Application of Ultraviolet Spectroscopy to Analysis of Coatings and Polymers", Frank Spagnolo, N. L. Industries; "Surface Analysis Applied to Coatings Technology", Dr. Richard E. Crang, Bowling Green State University.

Wednesday, June 13

“The Application of Microscopy to the Characterization of Organic Coatings”, Richard Holsworth, Glidden Coatings and Resins Div. SCM Corporation; “Trace Analysis of Metals and Organic Species”, Dennis Anderson, DeSota, Inc.; “Particle Size Distribution Analysis”; Dr. Theodore Provder; “Polymer Characterization by Light Scattering”, Dr. Katherine Reed, NASA Lewis Research Center.

Thursday, June 14

“Polymer Characterization by Total Thermal Analysis”, Dr. Roger L. Blaine, DuPont Instruments; “Dynamic Mechanical Analysis of Thermosetting Systems”, Dr. John K. Gillham, Princeton University; “The Theology of Solutions and Dispersions”, Dr. Edward A. Collins, Diamond Shamrock Corporation; “Literature Sources for Polymers and Coatings”, Maria McSweeney, Glidden Coatings and Resins Division, SCM Corporation.

Friday, June 15

“Application of Color Science to Coatings”, Ruth Johnston-Feller, Consultant; “Use of Dielectric Measurements for Characterization”, Dr. Stephen Havriliak, Jr., Rohm and Haas Company.

SUMMER RHEOLOGY COURSE

June 25-29, 1979

The Rheology and Coatings Laboratory in the Chemistry Department of Kent State University will present for the fourth consecutive year a short course, "Applied Rheology for Industrial Chemists", on June 25-29, 1979. The Lecturers will present talks on the rheology of dispersion, viscoelastic fluids, elastomers, coatings, extrusion, gels, plastics and drag reducers. The program will be presented by industrial and university authorities who will discuss principles and applied problems. Both steady state and dynamic methods of investigation will be described.

Individuals whose jobs are related to research, development and production of coatings, adhesives, inks, elastomers, plastics and similar material should greatly benefit from the program.

Additional details can be obtained from the program chairman, Carl J. Knauss, Kent State University, Chemistry Department, Kent, Ohio 44242, or by calling (216) 672-2327.

The details of the program are as follows:

Monday, June 25

"Basic Concepts of Rheology I and II", Dr. Hershel Markovitz, Carnegie-Mellon University"; "Rheology of Dispersions", Dr. Irvin M. Krieger, Case-Western Reserve University; and "Measuring Techniques for Viscoelastic Properties of Liquids", Dr. Raymond R. Myres, Kent State University

Tuesday, June 26

"Kinetic Rheology Applied to Liquid-to-Solid Conversion", Dr. Raymond R. Myers; "Analysis of Viscoelastic Data", Dr. Donald J. Plazek, University of Pittsburgh; "Rheological Instruments", E. J. "Tug" Tolle, Imass Inc.; "Some Applications of Rheology in Solving Polymer Problems", Dr. Donald Bigg, Battelle-Columbus Laboratories.

Wednesday, June 27

"Rheological Aspects of Elastomeric Adhesives", Dr. Alan N. Gent, Institute of Polymer Science, The University of Akron; "Brush Application of Coatings", Dr. J. Edward Glass, Union Carbide Corporation; "Roll Application of Coatings", Dr. J. Edward Glass; "Rheology of Elongational Flow and its Applications", Dr. James L. White, University of Tennessee.

Thursday, June 28

“Rheology as a Tool for Characterization of Polymers and Hydrogels, Part I and Part II”, Dr. Edward Bagley, United States Department of Agriculture; “Correlation of Film Morphology with Drying Behaviour”, Dr. John W. Vanderhoff, Emulsion Polymers Institute, Lehigh University; “Flow Fundamentals in Fluid Systems of High Molecular Weight Additives”, Dr. Robert Y. Ting, Naval Research Laboratory.

Friday, June 29

“Fracture Behavior of Brittle Materials”, Dr. Donald L. Hunston, Naval Research Laboratory; “Ductile Fracture Mechanics”, Dr. Ray D. Hoffman, U.S. Steel Corporation.

**GORDON RESEARCH CONFERENCE
ON SCIENCE OF ADHESION**

August 20-24, 1979

*New Hampton School, New Hampton, New Hampshire*Albert C. Zettlemoyer, *Chairman*Leighton H. Peebles, Jr., *Vice Chairman***Monday, August 20***Surface Science**Morning:* Chairman: R. M. Stromberg, Bureau of Medical Devices"Long Range Surface Forces"—W. D. Bascom, C. R. Singleterry and
P. Peyser, Nav. Res. Lab."Some New Aspects of Wetting and Spreading"—T. G. M. Van de Ven
(S. G. Mason), Pulp and Paper Res. Inst., McGill University*Electrostatics and Adhesion**Evening:* Chairman: M. L. Hair, Xerox Corp. "Electronic States in Polymers"
—C. B. Duke, Xerox Corporation"Contact Charge Exchange Spectroscopy"—T. J. Fabish, Xerox Corporation
"Electrostatic Charging and Polymer Structure Correlations"—H. Gibson,
Xerox Corporation**Tuesday, August 21***Polymers**Morning:* Chairman: Steve Carr, Northwestern"Physical Aging of Glassy Network Polymers"—J. A. Emerson, Western
Electric and G. L. Wilkes, VPI and SU Blacksburg, VA"The Role of Viscoelasticity in Adhesion"—N. W. Tschoegl, Calif. Inst. of
Tech.*Evening:* Chairman: Alan Gent, Akron

"Conductive Adhesives"—L. H. Sharpe, Bell Laboratories

Wednesday, August 22*Anodized Aluminum**Morning:* Chairman: Frank Kelley, Akron

“Chemical Properties of a Thin Anodic Oxide Layer on Aluminum Alloys Studied with Reference to Adhesive Bonding”—N. T. McDevitt, AF Mat. Lab.

“Role of Adherend Surface Treatment on the Durability of Adhesive Bonded Aircraft Structures”—J. A. Marceau, Boeing

Failure Mechanisms

Evening: Chairman: J. R. Huntsberger, DuPont

“De-adhesion of Paint from Steel by Corrosion Processes”—A. G. Smith, Ford Motor Company

“De-Adhesion of Paint from Galvanized Steel and De-cohesion of Zinc During Deformation”—H. Leidheiser, Jr., Lehigh University

Thursday, August 23

Failure Mechanisms

Morning: Chairman: Shelton Mostovoy, IIT

“Environmental Failure Mechanism of Adhesive Joints”—A. J. Kinlock, U.K. Ministry of Defense

“Micro-Mechanism of Adhesive Bond Failure”—D. L. Hunston and W. D. Bascom, Naval Research Laboratory

Bio-adhesion

Evening: Chairman: R. Baier, Calspan

“Bonding of Carbon to Bone”—J. Klawitter, Tulane University

Friday, August 24

Special Adhesion Problems

Morning: Chairman: Leighton H. Peebles, Jr., Office of Naval Research

“Substrate Topography in Polyethylene-Metal Bonding”—D. E. Packham, Univ. of Bath, Bath, U.K.

“Cracks at Interfaces in Composites”—Kevin Kendall, ICI

For further information contact: Dr. Alexander Cruickshank, Director, Gordon Research Conferences, Pastore Chemical Laboratory, University of Rhode Island, Kingston, Rhode Island 02881, U.S.A. Tel. (401) 783-4011.

INTERNATIONAL FORUM**COMPOSITES, ASSEMBLAGE AND BONDING**

11-14 September—LYON—FRANCE

Summary of the Congress Programme**Tuesday 11 September 1979**

PLENARY SESSION

Morning

Introduction (recap of what has been achieved since 1971, summary of the conclusions of the international composites conference (ICCM—II) held in Toronto in 1978; economic aspects . . .)

Afternoon

Degradation, Aging, Reliability

Influence of degradation and aging on the properties of composites and bonded structures

ROUND TABLES

Afternoon

Processes of degradation of composites and bonded structures: anti-corrosion
Idea of composite panels in building, effect of temperature and humidity variations

Use of composites against wear

Fibre used as reinforcements

Wednesday 12 September 1979

PLENARY SESSION

Morning

Adhesion Role of the chemical bond

Assemblies Various means of assembling, bonding of composites

ROUND TABLES

Afternoon

Assemblies Composites materials and the various means of assembling
Analysis of bonded joints

Adhesion Problems and needs of industry in the field of adhesion

Building Reinforcement of existing structures by bonding

Transport Development and use of fibre glass in transport: the problems which have been identified and foreseen

Is it possible to introduce advanced composites into the transport industry?
The resins for the composites

Thursday 13 September 1979

PLENARY SESSION

Morning

Analysis of products, control and production

ROUND TABLES

Afternoon

Composite materials in electrical construction; electrical and mechanical properties required

Use of composites in packing and stockage

Design of structures

Methods of characterizing the mechanical properties of composites

Methods of characterizing the physical-chemical and chemical properties of composites

Applications other than in the aerospace sector of industry for composites various industries, sport, etc. . . .

An examination of the prospects for the future

Technics of non-destructive control

Friday 14 September 1979

PLENARY SESSION

Morning

Conclusions

Organization Committee

- The organizing members of the National Association for Research and Technology
- Members of the Materials working group of the A.N.R.T.
- Promolyon, conventions bureau of Lyon

Secretariat

Promolyon—Palais des Congrès, Quai Achille Lignon, 69459 Lyon Cedex 3.
Telephone: (78)—52.51.27—Télex: 340056 Fairlyo-Lyon

Information—Public Relations

Promolyon, 136 boulevard Haussmann, 75008 Paris
Telephone: 942.68.50



**INTERNATIONAL FORUM
FOR COMPOSITE MATERIALS, GLUEING
AND ASSEMBLING**
The art of assembling materials
LYON (FRANCE)
PARC DES EXPOSITIONS
SEPTEMBER 11-14, 1979

The French National Association of Technical Research already promoted two meetings in LYON :

in 1971, an International Congress on Composites.

in 1974, an International Congress on Glueing.

A further meeting is being prepared in LYON for an INTERNATIONAL FORUM FOR COMPOSITE MATERIALS, GLUEING AND ASSEMBLING, with main interest given up to the assembly and adherence of parts of various sizes, ranging from the components used in composites to parts joined together by glueing process.

	A.M.	P.M.	GRAPHIC SESSIONS	EXHIBITION
TUESDAY SEPTEMBER 11th	PLENARY SESSION ● Foreword ● Developments in composite and glued materials over the last few years. Knowledge gained at Toronto Congress. Economic analysis of composite and glued materials.	PLENARY SESSION ● Deterioration, aging, reliability: The influence of deteriorations and aging on the properties of Composites and glued assemblies. ROUND TABLES ● Process of the decay of composites and glued assemblies - corrosion prevention. ● The design of composite panels in building - the influence of thermal and hygro-metric fluctuations. ● Use of composite materials against wear and tear. ● Fibers as composite reinforcements. Etc.		
WEDNESDAY SEPTEMBER 12th	PLENARY SESSION ● Adherence: Chemical bonding ● Assembly methods of composite materials.	ROUND TABLES ● Calculation of glued joints. ● Reinforcement of existing structures by glueing process (building industry) ● Problems of industrial users regarding adherence, their need for information. ● The growth of the utilization of glass laminated materials in transport means; the existing or anticipated obstacles. ● Sophisticated composites in the construction of vehicles? ● Resin based composites. ● Composites and glued assemblies in mechanical engineering. Etc.		
THURSDAY SEPTEMBER 13th	PLENARY SESSION ● Product quality. Quality control processes.	ROUND TABLES ● Composite materials in electrotechnique : the required electric and mechanical properties. ● Composite materials and glued components in packing and storing. ● Calculation of composite components. ● Rustic glueing. ● Physico-chemical and chemical identification processes. ● Applications of composite materials (except aeronautics): various industries, sport and recreational articles. ● Non destructive test processes. Etc.		
FRIDAY SEPT. 14th	PLENARY SESSION ● CONCLUSIONS Composite materials for the future.	VISITS TO FACTORIES AND PLANTS		

FORUM ATTENDANTS	1 250 F
EXHIBITORS	7 500 F
VISITORS and GRAPHIC SESSIONS ATTENDANTS	250 F

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