

STEERING COMMITTEE

Central Regional Meeting
AMERICAN CHEMICAL SOCIETY

May 9, 10, 1968



PLEASE ADDRESS REPLY TO:

October 4, 1968

GENERAL CHAIRMAN
DR. GLENN BROWN
KENT STATE UNIVERSITY
KENT, OHIO 44240

VICE CHAIRMAN
DR. J. A. BECKMAN
CENTRAL RESEARCH LABORATORIES
FIRESTONE TIRE & RUBBER CO.
AKRON, OHIO 44317

TECHNICAL PROGRAM CHAIRMAN
DR. HENRY SABLE
CASE WESTERN RESERVE UNIVERSITY
CLEVELAND, OHIO 44106

HOUSING &
MEETING FACILITIES CHAIRMAN
DR. D. P. TATE
CENTRAL RESEARCH LABORATORIES
FIRESTONE TIRE & RUBBER CO.
AKRON, OHIO 44317

EXHIBITS CHAIRMAN
WILLIAM G. KROCHTA
PITTSBURGH PLATE GLASS
CHEMICAL DIVISION
BARBERTON, OHIO 44203

Mr. W. H. Nicol
Research Division
The Goodyear Tire & Rubber Co.
Akron, Ohio 44316

Dear Howard,

On behalf of the Steering Committee, ACS Central Region, I acknowledge with thanks receipt of your check of \$407.59 representing 20% of the excess of receipts over expenses of the first Central Regional Meeting held May 9 and 10, 1968.

Permit me to extend my personal thanks and congratulations to you on what I regard as superior performance of your function as Budget and Finance Chairman of the Operating Committee.

Sincerely yours,

L. E. Forman
Secretary-Treasurer

cc: Dr. Glenn H. Brown
Mr. V. L. Folt

The Goodyear Tire & Rubber Company

AKRON, OHIO 44316

RESEARCH DIVISION
142 GOODYEAR BLVD.

September 27, 1968

Dr L E Forman
Firestone Tire & Rubber Company
Central Research Laboratories
Akron, Ohio 44317

Dear Dr Forman:

Attached is a check for \$407.59 to be deposited to the account of the Central Regional Steering Committee, ACS. This amount is 20% of the excess of receipts over expenses for the First Central Regional Meeting held May 9 and 10, 1968. The remaining 80% is being sent to the Treasurer of the Akron Section ACS, Miss Lois Brock.

Very truly yours,



Budget & Finance Chairman
ACS Central Regional Meeting

W H Nicol
ph

cc: V L Folt
G Brown

September 27, 1968

TO: Operating Committee
First Central Regional Meeting
American Chemical Society

SUBJECT: Final Financial Statement on the First Central
Regional Meeting, ACS, May 9 and 10, 1968.

This constitutes the final report of finances of the subject meeting. With the issuing of two checks today - one in the amount of \$1,630.37 (80%) to the Akron Section ACS Treasurer, Miss Lois Brock, and the other for \$407.59 (20%) to the Central Regional Steering Committee Treasurer, L E Forman, the special account at The Goodyear Bank will be closed. These checks represent the excess of receipts over expenses for the meeting as a whole.

Very truly yours,

W H Nicol

Budget & Finance Chairman
ACS First Central Regional Meeting

W H Nicol
ph

cc: V Folt
L Brock

Attachment #1 - Final Financial Statement.
" #2 - Report of Audit Committee appointed by
Vernon Folt.

FINAL FINANCIAL STATEMENT

ACS CENTRAL REGIONAL MEETING OPERATING COMMITTEE

September 27, 1968

INCOME

*Loan from Akron Section-	\$ 400.00
**Contributions-	295.00
Booths -	5,470.00
Registrations-	6,106.50
Plant Tour Tickets -	134.00
Program Abstracts---	<u>7.00</u>
TOTAL INCOME -	\$12,412.50

EXPENDITURES

General Chairman - Dr Glenn Brown-	\$ 111.63
Vice-Chairman - Dr J A Beckman -	54.85
Secretary - Dr L E Forman-	27.70
Budget & Finance Chairman - W H Nicol-	0
Registration & Information - C F Winans-	265.81
Housing, Meeting Room & Exhibit Facilities (Dr D Tate, Dr J Hunt, & Dr W Krochta -	3,174.76
Technical Program - Dr Henry Sable -	1,528.70
Printing & Mailing - C E Sitz-	3,731.95
Publicity & Public Relations - R W Smith -	120.83
Special Activities - Dr R Milkovich-	461.82
*Repay Akron Section Loan -	400.00
**Contributions to Steering Committee-	295.00
Contingency -	<u>201.49</u>
TOTAL EXPENDITURES -	\$10,374.54
EXCESS OF RECEIPTS OVER EXPENSES-	\$ 2,037.96
Close-out check to Akron Section-	\$1,630.37
" " " to Steering Committee -	<u>407.59</u>
	\$ 2,037.96
CASH ON HAND -	- 0 -

September 24, 1968

Dr Vernon L Folt
Chairman, Akron Section
American Chemical Division
B F Goodrich Research Center
Brecksville, Ohio 44141

Dear Dr Folt:

On September 24, 1968, the financial records of the First Central Regional Meeting of the ACS, held by Mr W H Nicol, Budget and Finance Chairman, were audited.

The financial records were found in order. The cash on hand is \$2,037.96.

Respectfully submitted,

Leora E Straka, Councilor

A F Finelli, Councilor

ph

cc: W H Nicol
Dr Glenn Brown.

April 22, 1968

Dr L E Forman
Secretary-Treasurer
ACS Central Regional Meeting
Steering Committee

Dear Dr Forman:

Attached is our check for \$295.00 which covers the sums being held for the steering committee (Northeast Ohio Section - \$100, and Akron Section - \$195) as requested in the minutes of the March 26, 1968, meeting.

W H Nicol

Treasurer, ACS Central Regional
Meeting

W H Nicol

July 1968

ACS Central Regional Meeting

The first Central Regional Meeting of ACS will be held in Akron, Ohio, May 9 and 10. The Akron Section will host the meeting. Headquarters will be the Sheraton Hotel.

The program, which lists about 200 papers, will consist of 13 symposiums and a variety of general papers. The 28 sessions will cover studies and research in analytical, biological, education, marketing, industrial, inorganic, organic, physical, polymer, and theoretical chemistry.



Cairns

Dr. Robert W. Cairns, ACS President, will give the keynote address on Thursday afternoon and will chair the symposium on computers. There will be a technical exhibition and

a series of tours through rubber plants and other industries.

Immediately after the meeting the ACS is sponsoring a Short Course on Spectrometric Identification of Organic Compounds, under Robert M. Silverstein and G. Clayton Bassler. It will be held May 11 to 13 at the Akron Tower Motor Inn. Lectures and problem sessions will emphasize utilizing the combined (complementary) information from UV, IR, NMR, and mass spectra as tools for identifying organic compounds. For further information write to Education Office, ACS, 1155-16th St., N.W., Washington, D.C. 20036.

A free shuttle bus reserved for the ACS will continuously circle the various meeting locations, providing service approximately every 15 minutes all day May 9 and 10.



Brown



Sable

Dr. Glenn H. Brown of Kent State University is general chairman of the meeting. He is assisted by Dr. Joseph Beckman of Firestone. Dr. Henry Z. Sable of Case Western Reserve is technical program chairman.

Advance registration is urged, using the accompanying form. Mail

promptly to Dr. C. F. Winans, Registration Chairman, Goodyear Research, Akron, Ohio 44316. Make check payable to ACS Regional Meeting, and indicate choice of plant trips. Deadline for advance registration is May 1. Acknowledgment will be mailed to all advance registrants, but other material—program, abstracts, badge, tour tickets, mixer ticket, etc., may be picked up at the registration area in the Sheraton Hotel in Akron beginning May 8.

For housing information and reservation write Dr. Charles E. Wilkes, B. F. Goodrich Co., Research Center, Brecksville, Ohio 44141. Housing reservations must be in by April 22.

Analytical Chemistry

FRIDAY MORNING

Symposium on Electroanalytical Techniques

Myron T. Kelly. Operational Amplifier Systems in Electroanalytical Chemistry at Oak Ridge National Laboratory.

Henry H. Bauer. a.c. Polarography.

John K. Taylor. Coulometric Analysis.

Theodore Kuwana. Transparent Electrodes.

FRIDAY AFTERNOON

Symposium on Air and Water Pollution

Emanuel D. Margolin. Survey of Sulfur Dioxide Control for Stationary Sources.

Andrew H. Rose. Summary Report of Vehicular Emissions and Their Control.

Dwight G. Ballinger. Chemical Determinations in Water Pollution Control.

Melvin Nolan. Instrumental and Automated Water Quality Analysis.

General

H. R. Friedberg, M. L. Levy. Particle-Size Analysis by Instrumentation Using an Electrical Sensing Zone Principle.

L. J. Gaeta, E. W. Schlueter, A. G. Altenau. Determination of Antioxidants in Oil-Extended Synthetic Polymers.

R. J. Turner, L. J. Gaeta, A. G. Altenau, R. W. Koch. Determination of Carbon-Bound Lithium in Polymer Cements.

K. R. Lucas. The Electrolytic Hydrodimerization of Acrolein.

K. R. Lucas. The Electrochemical Reduction of Acrolein.

S. L. Tackett. Polarography of Vitamin B₁₂.

J. H. Ross. Thin-Layer Chromatography of Amine Oxides.

R. L. Schultzmann, W. F. Barthel. Indoxyl Acetate as a Simple Spray Reagent for TLC: Fluorogenic Detection of Cholinesterase Inhibitors in Environmental Samples.

T. D. Sokoloski, C. L. Olson, S. N. Pagay, D. Michaels. Continuous Measurement of Mass Transport Across Membranes.

W. D. Mason, C. L. Olson. Continuous Analysis of Monamine Oxidase Activity.

Biological Chemistry

THURSDAY MORNING

General

Sr. M. Julitta Bomkamp, Sr., M. M. Boyle, G. S. Sperti, E. S. Cook. The Effects of Low-Velocity Electrons on Catalase.

K. Tanaka, A. Fujii, E. S. Cook. Synthesis and Chromatography of Dipeptides.

Chemical Education

FRIDAY MORNING

Symposium on Recent Developments in Chemistry

L. B. Rogers. Separations—Today and Tomorrow.

Gideon Fraenkel. Exchange Rates from NMR Spectra.

G. R. McMillan. Some New Problems in Photochemistry.

Kerro Knox. Modern Techniques in X-Ray Crystallography.

FRIDAY AFTERNOON

General

K. Fulmer, W. F. Murdoch. Introducing Atomic Orbitals via Instructional Carrels.

G. Eckert. A Freshman Laboratory Program Consisting of the Study of a Single Compound.

J. D. Goodrich. Analytical Chemistry in the General Chemistry Laboratory.

T. M. Schmitz. Laboratory Accident Liability.

Chemical Marketing and Economics

FRIDAY AFTERNOON

(Program to be announced later)

Industrial and Engineering Chemistry

THURSDAY MORNING

General

A. E. Oberster, R. W. Kibler, G. E. P. Smith, Jr. Process for Caprolactam from Cyclohexene.

W. E. Claxton, H. C. Holden, J. W. Liska. A Blend Optimizer for the Rubber Industry.

T. C. Bouton, J. D. Brown. Rheology of Concentrated Polybutadiene Solutions Prepared by N-Butyllithium Initiation.

T. A. Kenat, R. I. Kermode, S. L. Rosen. Molecular Weight Control in a Continuous Stirred Tank Polymerization Reactor.

T. A. Kenat, S. L. Rosen. The Effects of Chain-Transfer in Molecular Weight Distribution.

J. N. Esposito. Properties of Silicon Nitride Made from Silane and Ammonia.

D. W. Lewis. Properties of Aluminum Nitride Derived from $AlCl_3$, NH_3 .

THURSDAY AFTERNOON

Symposium on Computers: Information Retrieval, Data Acquisition, and Process Control

Ralph E. O'Dette. Processing and Retrieval of Chemical Information by Computer.

A. Savitsky. Laboratory Data Acquisition and Computations.

Theodore J. Williams. Process Dynamics and Control—A Field in Rapid Change.

Inorganic Chemistry

THURSDAY MORNING AND AFTERNOON

Symposium on Reactions of Coordinated Ligands

Daryle H. Busch. Coordination Template Effects.

John P. Fackler. Ligand Reactions of Coordinated 1,1-Dithiol Complexes.

James P. Collman. Mechanistic Patterns in Homogeneous Catalyses.

D. L. Leussing. Studies in Labile Systems: Metal Ion Catalysis of Schiff Base Formation.

Richard F. Heck. Addition-Elimination Reactions of Organopalladium.

Andrew Wojcicki. Insertion Reactions of Transition Metal Alkyls and Related Complexes.

FRIDAY MORNING

General

Delores M. Bowers, Alexander I. Popov. Transition Metal Complexes of Tetrazoles.

David G. Hendricker, Thomas E. Reed. Transition Metal Complexes of 2,7-Dimethyl-1,8-Naphthyridine.

Charles H. Ke, Norman C. Li. Adducts of Copper(II) β -Diketone Chelates with Tertiary Alkylamines and Alkylamine Hydrochlorides.

Donna Berglund, Devon W. Meek. A Unique Phosphitanium Cationic Ligand and the Formation of Pseudotetrahedral Cobalt(II) and Nickel(II) Complexes.

Wai See Tsang, Devon W. Meek, Andrew Wojcicki. Seven-Coordinate Carbonyl Complexes of Molybdenum(II) and Tungsten(II).

M. A. Jennings, Andrew Wojcicki. Selenocyanato Complexes of Cyclopentadienylmetal Carbonyls.

A New X-Y Recorder...



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Easier to operate... easier to position... and meets top performance requirements. The *function/riter*[®] recorder is more convenient than other X-Y plotters. You can operate this new TI recorder in five different positions to suit any application. Mount it in a 19-inch rack without adapters, stand it upright on a benchtop or position it flat with the writing surface horizontal, at a 45° or 90° tilt angle so you see the plot, even when you're sitting.

It's easy to change applications too. Three types of plug-in "function modules" allow you to plot inputs from 100 μ v to 50v, with time sweeps from 0.1 second/inch to 100 seconds/inch. All modules are interchangeable between X and Y axes. *Signal Input* module permits single-range millivolt recording. *Signal Control*

module offers 16 calibrated scale factors. *Time Base* module gives 10 time or voltage factors.

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There's more to the story too. Find out by asking for complete data or a demonstration from your TI representative or the Industrial Products Division, P. O. Box 66027, Houston, Texas 77006 (713-349-2171).

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CEN 325

Plant Tours

- 1 and 2: Babcock & Wilcox Co. Tour of boiler division works will show metal manufacturing operations required to produce components for both fossil and nuclear electric power stations. Participants in these tours must be U.S. citizens.
- 3 and 4: Firestone Tire & Rubber Co. Display area and factory operations will show calendaring, stock cutting, tire assembly, and vulcanization.
- 5 and 6: General Tire & Rubber Co. Manufacturing operations will feature basic procedure used in the making of a tire, from raw materials to the finished product.
- 7 and 8: B. F. Goodrich Research Center. R&D laboratories will show activities of a modern polymer research facility.
- 9 and 10: Goodyear Tire & Rubber Co. Plant 2 manufacturing facilities will show a modern-equipped tire production factory.
- 11: PPG Industries, Inc. Pigment production area will show the making of silicates from soda ash by fusion and precipitation.
- 12: PPG Industries, Inc. Chlorine manufacturing facilities will show how rectifiers produce d.c. current for the electrolysis of brine to produce chlorine, caustic, and hydrogen.

Odd-numbered tours will depart from the Sheraton at 1:30 P.M. May 9; the even numbered at 10 A.M. May 10. Comfortable walking shoes recommended; cameras not permitted. Cost is \$1.00 for each tour.

Philip J. Pollick, Andrew Wojcicki. Derivatives of Triironnonacarbonyldisulfide: Preparation and Proton Magnetic Resonance Spectra.

A. Clearfield. The Crystal Structure of Ammonium Zirconyl Carbonate.

FRIDAY AFTERNOON

General

B. J. McCormick, R. I. Kaplan. Structure of the Reaction Products of Nickel(II)-Aziridine Complexes with Carbon Disulfide.

R. I. Kaplan, B. J. McCormick. The Reaction of Carbon Disulfide with Some Nickel(II) Complexes.

R. J. Kline, J. G. Wardeska. The Mercuration of Coordinated 8-Hydroxyquinoline.

L. M. Epstein, D. K. Straub. Mössbauer Spectra of Some Bis- and Tris-Dithiocarbamate Complexes of Iron(III).

J. Walsh, P. Maslona, R. Ivory. Formation and Properties of the Mono-O-Phenanthroline Cr(III) Complex in Water and Methanol.

W. B. Glenn, Jr., J. L. Hall. Potentiometric Titration Studies of 1,1,4,7,7-Pentakis-(2-hydroxypropyl) - diethylenetriamine and of 1-Aziridine-ethanol with Cadmium(II), Cobalt(II), Nickel(II), and Zinc(II) Ions.

Organic Chemistry

THURSDAY MORNING

Symposium on Carbonium Ions

George A. Olah. The Behavior of Hydrocarbons in Super Acids.

Paul G. Gassman. Positively Charged Organic Ions. The Relationship Between Nitrenium Ions and Carbonium Ions.

Herbert C. Brown. Steric Hindrance to Ionization in the Solvolysis of Bicyclic Perivatives.

Lester Friedman. The Fate of the Isobutyldiazonium Ion.

Norman C. Deno. Relative Stability of Propyl Cations.

Edward M. Arnett. Energies of Formation in Solution.

Registration Form

Central Regional Meeting of ACS

**Akron, Ohio
May 9 and 10, 1968**

Professional Affiliation _____

Mailing Address _____

Registration Fees:
ACS member—advance registration \$ 7.00
Nonmember 15.00
High School Teacher 2.00
Student 2.00
Plant Tour (@ \$1.00; circle one)
1-2-3-4-5-6-7-8-9-10-11-12

Name (please print) _____

Dr. _____ (last) _____ (first) _____ (initial)
Mrs. _____
Mr. _____
Miss _____

General I

L. G. Wideman, E. A. Ofstead, N. Calderon. Macrocyclic Ketones.

D. L. Fishel, Y. H. Wu. PMR Studies of Hydrazoic Acid/Alkyl Aryl Ketone Reaction Intermediates in Strong Acid Media.

D. C. Iffland, D. J. Weber, M. P. McAneny. The Correlation of UV Spectra and Steric Effects in Aryl and Alkyl Hydrazones.

H. Takeda, W. H. Schuller, R. V. Lawrence. An Unusual Ring Opening Reaction in a Resin Acid.

D. T. Witiak, M. C. Lu. Stereochemical Analysis of the Reaction of Diazomethane with Methyl *cis*- and *trans*- β -Acetylthioacrylates.

A. L. Ternay, Jr., L. Ens, S. Evans. The Stereochemistry of 9-Alkylthioxanthenes and Related Compounds.

J. Ashby, U. Eisner, J. A. Elvidge, L. A. Cort. A Novel Nitrogen-Containing Bicyclic System.

R. E. Harmon, B. Jensen. An Abnormal Bischler-Napieralski Reaction.

B. T. Gillis, R. J. Weinkam. Ring Opening Reactions of the Pyrazolo [1,2-*a*] Pyridazine-6-one System.

R. E. Beyler, H. A. Deadman, Jr., C. R. Englund. The Synthesis of Steroidal Nitrogen Mustards and Ethylenimine Derivatives.

P. B. Budde, H. Tolkmith. Phosphorus Derivatives of Imidazole II. Phosphonamidochloridothionates.

S. C. Bernstein. The Acid-Catalyzed Equilibration of α,γ -Diaryllallyl Alcohols.

FRIDAY MORNING

General II

S. L. Arora, J. L. Ferguson. Liquid Crystallinity of Nitrogen Heteroaromatic Compounds.

T. C. Shields, W. E. Billups, B. A. Loving, P. D. Gardner. Cyclopropenes and Methylene cyclopropanes from Dehydrochlorination of *gem*-Dihalocyclopropanes.

J. E. Douglass, R. Carpenter, J. Fellman, Y. Chiang. Synthesis and Reactions of Some Heterocyclic Bis(amine)-boronium Ions.

T. J. Kress, W. W. Paudler. Some Transformations in Naphthyridine Chemistry.

W. W. Paudler, A. G. Zeiler. Octahydro-1,5-Diazocines: Syntheses and Ring Contractions.

E. J. Nienhouse. The Methylindanyl Grignard Reagent Reaction with Simple Carbonyl Compounds.

H. C. Stevens, D. A. Reich, J. K. Rinehart, J. M. Lavanish. The Reaction of Dichloroketene with Aldehydes.

A. J. Krubsack, T. Higa. The Reaction of Thionyl Chloride with Certain Carbonyl Compounds.

G. B. Clemens, R. G. Morford. The Synthesis and Structure of Some New Derivatives of Dicyclopentadiene.

R. M. Bimber, R. D. Sattershell, W. J. Pyne. Preparation of Aromatic Acid Chlorides by Chlorination of Alcohols.

D. W. Slocum, S. Puckett, P. Shenkin, T. R. Engelmann. 2-Lithiation of Nitrogen-Containing Ferrocenes: (1) Synthesis of 2-Substituted *N*-alkylferrocenecarboxamides. (2) Routes to 2,2'-Disubstituted Biferrocenyl Compounds.

O. J. Grummitt, W. J. Nebe. Stereoselective Hydrogenation of 1,3-Enynes.

FRIDAY MORNING

General, Reaction Mechanisms I

P. E. Newallis, A. J. Poje. Some Studies on the Mechanism of the Pyrolysis of Fluoroacetone Hemiketal Esters.

D. A. Hutchings, J. E. Taylor, K. J. Frech. Further Studies on the Pyrolysis of Neopentane Using a Truly Homogeneous (Wall-less) Reactor.

J. A. Barter, J. C. Crano, E. K. Fleming, C. L. Denson. Thermal Decomposition of Dialkyl Peroxydicarbonates.

R. C. Williamson. A Study of the Thermal and Catalytic Decomposition of Cyclohexyl Hydroperoxide.

G. C. Farrant, R. L. Dannley. The Decomposition Reactions of Organogermanium Hydroperoxides.

J. M. Lavanish. The Reaction of Triethylamine with Dichloroacetyl Chlorides: Trichlorovinyl Dichloroacetate.

R. D. Porter, C. R. Parks, W. L. Cox. Ozonation of *cis*- and *trans*-Olefins.

I. E. Den Besten, R. W. Roth, R. B. Hutchison. Synthesis of Valence Isomers of Naphthalene via Carbene Insertion Reactions.

V. J. Treynelis, G. A. Pedroza. Methylation of Nitroaromatic Compounds with Dimethylsulfonium Methylid.

V. J. Treynelis, R. H. Ode. The Reaction of Amine Salts in Dimethyl Sulfoxide and Dimethylformamide.

P. P. Nicholas, R. T. Carroll. The Chlorination of Olefins with Cupric Chloride. A Comparative Study of *trans*-Ethylene- d_2 and *cis*- and *trans*-2-Butene.

C. W. Muth, J. C. Patton. Displacement and Reduction Reactions of Benzopyridine *N*-Oxides with Alkoxides.

FRIDAY AFTERNOON

General, Reaction Mechanisms II

I. Lillien, G. F. Reynolds. Non-planar Cyclobutane: Solvolysis of *cis*- and *trans*-3-Isopropylcyclobutyl Brosylate.

P. G. Gassman, J. Hornback. Stereochemistry of the Rearrangement Product from 2,3-Dideuteriobicyclo [2.2.1] Hept-7-yl Tosylate Solvolysis.

P. E. Peterson, J. E. Duddey. Reactions of 2-Substituted Cyclohexyl Brosylates with Trifluoroacetic, Formic, and Acetic Acids.

R. E. Davis. Carbonium Ions, A New Proposal for Fast Solvolysis Without Requiring Nonclassical Resonance.

J. W. Hausser, M. J. Grubber, J. T. Uchic. The Solvolysis of Cyclopropyl Bromides.

J. W. McFarland, D. Thoennes. The Reactions of Sulfonyl Isocyanates with Various Triarylmethanols.

R. E. Hornish, R. C. Fort, Jr. Bridgehead Carbonium Ions of Condensed Bicyclic Systems.

R. Filler. Effects of Fluorine Substitution on the Stability of Triaryl Carbonium Ions.

J. S. Swenton, T. Ikeler. Mechanistic Investigations of 2-Biaryliso-cyanate Photolysis.

R. W. Binkley. Photochemical Azine Exchange.

D. D. Morgan, M. Orchin. The Photocyclization of Distyrylbenzenes. A Comparison with the Dinaphthyl-enes.

P. G. Arapakos, M. K. Scott, F. E. Huber, Jr. Reactions of Nitriles with Solvated Electrons.

FRIDAY AFTERNOON

Symposium on Highly Reactive Intermediates

R. Srinivasan. Reactive Intermediates in the Photolysis of Furans.

A. G. Anastassiou. Cyanonitrene.

E. Wasserman. Electron Spin Resonance of Reactive Intermediates.

H. Shechter. Intramolecular Reactions of Divalent Carbon.

Physical Chemistry

THURSDAY AFTERNOON

Symposium on Mössbauer Spectroscopy: Applications to Coordination, Organometallic, Bio-, and Magnetochemistry

L. N. Mulay. Basic Concepts of Mössbauer Spectroscopy, Exciting Aspects of Organometals, Magnetochemistry, and Whatnot.

J. J. Zuckerman. Mössbauer Spectroscopy of Tin Complexes.

L. M. Epstein. Mössbauer Spectroscopy and Magnetochemistry of Iron Complexes.

L. May. Mössbauer Spectroscopy: Applications to Biochemistry.

MEN AND MOLECULES

... released for broadcast after March 29 is titled A Different Source of Protein, Part I, and features Dr. John Litchfield of Battelle Memorial Institute, Columbus, Ohio.

See "Men and Molecules" listings beginning on page 42 of C&EN for Jan. 1 for stations broadcasting in your area. Each week C&EN announces here the "Men and Molecules" program to be released the following Friday. Call your local station to find out when specific programs you are interested in will be broadcast.

THURSDAY MORNING

General

S. M. Wang, N. C. Li. NMR Studies of Self-Association and Metal Complexation of Nucleosides in Dimethyl Sulfoxide.

R. J. McKown, J. D. Graybeal. Nuclear Quadrupole Coupling in Hexachlorostannates.

P. Merrithew, P. Rasmussen. A New Interpretation of the Anomalous Paramagnetism of Iron(III)*N,N*-Dialkylthiocarbamates.

G. V. Nazarov. One-Particle Aspects of the Two-Electron Many-Configuration Self-Consistent Field Formalism.

D. J. Kenney, Bro. C. L. Michiels. Flash Photolysis of Azidopentacyanoferrate(III).

J. R. Harris, D. R. Rossington. *p*-Hydrogen Conversion on TiO₂.

THURSDAY AFTERNOON

General

W. E. Bacon, G. H. Brown. X-Ray Diffraction Studies of Thorium(IV) in Aqueous Perchlorate Solutions.

R. A. Crawford, W. B. Darlington, L. B. Kliever. Conductivity of Sodium Chlorate-Sodium Chloride-Water System at High Temperature.

T. Y. Tong, R. L. Johnson. Equilibrium of the Dissociation of Trioxofluorochromate(VI) Ion.

D. Kimpton, R. Schell. The Heats of Combustion and Formation of Di-*tert*-butyl Peroxide, Diisopropyl Peroxydicarbonate, Dicyclohexyl Peroxydicarbonate, and *tert*-Butylperoxy Isopropyl Carbonate.

W. G. Reinhart, D. J. Hunt. Intermolecular Association in a Homologous Series of Dialkyl Succinamic Acids.

R. Scott, D. DePalma, S. Vinogradov. Proton Charge Transfer Complexes in Phenol-Amine Systems.

J. L. Roberts, E. S. Hanrahan, M. R. Chakrabarty. Hydrogen Bonding Between Carboxylic Acids, Their Anions, and Water: A Study by the Extended Huckel Method.

R. Battino, F. D. Evans. The Solubility of CF₄, CH₄, C₂F₆, C₃F₈, and Cyclo-C₄F₈ in Benzene and Hexafluorobenzene.

Polymer Chemistry

THURSDAY MORNING

General

M. C. Morris. The Relationship of Stress-Strain Behavior of an Elastomer to Vapor Swelling.

G. S. Trick. The Swelling Behavior of Semicrystalline Polymers.

J. R. Semanchik, C. E. Rogers. Transport in Amorphous Polymers.

K. J. Liu, R. Ullman. Nuclear Magnetic Relaxation of Polydimethylsiloxane Solutions.

R. E. Bellis. ESR of γ -Irradiated Polymers.

P. S. Pillai, D. I. Livingston. Light-Scattering Study of SBR Copolymers and Blends.

J. H. Tazewell, R. A. Hayes. Fractionation of Nylon 6 by Coacervation.

THURSDAY AFTERNOON

General

S. E. Horne, Jr. The Polymerization of Ethylene by Organotin Compounds and Titanium Tetrachloride.

A. F. Halasa, C. J. Hunter. Copolymerization Studies of *o*- and *p*-Chlorostyrene with Butadiene.

A. Winston, M. H. Quinn. Conjugated Copolymers Formed by Polymerization Elimination.

E. F. Devlin, J. N. Henderson, R. E. Bellis. Color Formation During Polymerization of Isoprene with Ethyl Aluminum Dichloride Initiator.

S. P. Boutsicaris, R. A. Hayes. Reaction of Butadiene-Methylacrylic Acid Copolymers with Acetic Acid-Sulfuric Acid Mixtures.

W. L. Hergenrother. The Influence of Ether on the Thermal Degradation of Polyethylene Terephthalate.

T. W. Bethea, D. W. Carlson. NMR Analysis of *cis*- and *trans*-Content of Polybutadiene.

M. J. Hackathorn, M. J. Brock. Polyisoprene Microstructure Using Thermal Degradation Techniques.

J. N. Anderson, F. C. Weissert, C. J. Hunter. The Structure of Butadiene-Styrene Copolymers by Thermal Analysis.

C. P. Shank, H. James Harwood. Sequence Distribution in Styrene-Maleic Anhydride and Styrene-Maleimide Copolymers by Infrared Spectroscopy.

THURSDAY AFTERNOON

Symposium on Characterization of Biopolymers

J. J. B. P. Blais. Similarities Between Synthetic Polymer Structures, Polypeptides, and Biological Cell Membranes as Shown by Electron Microscopy.

J. A. Harpst. Low-Angle Light-Scattering Studies on DNA.

C. C. McDonald. Studies of Protein Structures by 220 MHz PMR.

M. Sundaralingam. Aspects of Stereochemistry and Hydrogen Bonding of Carbohydrates Related to Polysaccharide Conformation.

FRIDAY MORNING

Symposium dedicated to Auburn Science Center, University of Akron, Polymerization with Organometallic Compounds

Nissim Calderon. Macrocyclization of Cyclo-octene by Tungsten-Based Catalyst.

M. C. Throckmorton. Preparation of High *cis*-1,4-Polybutadiene Utilizing a Cerium Catalyst.

Marvin H. Lehr. The Active Oxidation State of Vanadium in Soluble Mono-olefin Polymerization Catalysts.

D. P. Tate. Metallation of Unsaturated Polymers and Formation of Graft Copolymers.

Ryozo Sakata. NMR Studies of Organolithium Polymerization of Dienes.

FRIDAY AFTERNOON

Symposium dedicated to Auburn Science Center, University of Akron, on The Polymeric Solid State

P. I. Vincent. A Photoanalytic Fracture Criterion for a Thermoplastic Film.

A. N. Gent. Elastic Instability and Fracture of Rubbers.

Gregory S. Y. Yeh. Order in the Amorphous State.

J. L. Koenig. Detection of Solid State Transitions in Polytetrafluoroethylene by Raman Spectroscopy.

Theoretical Chemistry

Symposium on Extended Semiempirical Methods in Molecular Quantum Mechanics

THURSDAY AFTERNOON

J. A. Pople. Approximate Molecular Orbital Methods Based on Zero Differential Overlap.

David L. Beveridge. Recent Studies in Pi-Electron Molecular Orbital Theory.

D. P. Santry. Molecular Orbitals and Charge Distributions of Infinite Chains.

Lawrence L. Lohr, Jr. Potential Energy Surfaces for Transition Metal Complexes from Orbital Energy Sums.

Janet Del Bene. The Use of the CNDO Method in Spectroscopy.

FRIDAY MORNING

Michael J. S. Dewar. Valance Shell SCF MO Treatments of Molecular Ground States.

S. P. McGlynn. Semiempirical Open-Shell Calculations on Pyridine and Ethylene.

Gilles Klopman. Generalized Perturbation Treatment of Chemical Reactivity.

A. M. Hinze. Semiempirical Correlation.

Hertz Award

Award of \$20,000 for outstanding accomplishment in the field of applied physical science is offered by the Fannie and John Hertz Foundation. Objective of the award is to promote education and improve the defense potential of the U.S. Special consideration will be given to younger scientists. Write W. E. Kenworthy, Penn State U, 201 Old Main, University Park, Pa. 16802.

KENT STATE UNIVERSITY

KENT, OHIO 44240

DEAN FOR RESEARCH

April 27, 1967

rec'd 5/1/67

TO: Members, Steering Committee, Central Regional Meeting ACS

I write this note with two purposes in mind. First to let you know we will be sending to you, in the near future, copies of the minutes of our Steering Committee meeting on April 1. Secondly I wish to take this opportunity to remind you that we would like to hear from you on the matter of topics for symposia and suggestions of people who might help organize and chair symposia. Do you have a member who might wish to serve on our program committee?

Our next general operating committee meeting will be next week and you will receive courtesy copies of the minutes of this meeting. We look forward to hearing from you at your earliest convenience.

Sincerely yours,

Glenn H. Brown
Glenn H. Brown, Chairman
Central Regional Meeting ACS

GHB:aam

P. S. We are looking for a section to host the 1969 regional meeting. Does your section wish to serve as host?