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1988 Gordon Research Conference on
Organometallic Chemistry

Final Progress Report

AFOSR Contract No. AFOSR-88-0193

The Gordon Conference on "Organometallic Chemistry" was held June 27-July 1, 1988 at Salve Regina College in Newport, R.I. The conference had ca 130 participants from academe, industry, and government laboratories. A significant fraction of conferees were from abroad. There were 32 speakers covering a range of subjects from "Organometallics in Organic Synthesis" and "Atom Transfer Reactions" to "New Techniques and Methods of Analysis" and "Organometallics and New Materials". A copy of the conference program is attached.

The talks focused on new results and emerging areas. Ample time for discussion in formal sessions was provided, and discussion was lively and widely based. Particularly stimulating presentations focused on organometallics in the preparation of new materials such as quantum dots, fast FTIR methods for analysis of reaction mechanisms, asymmetric hydrogenation catalysis, and oxidation catalysis reactions and models. One session on olefin polymerization was especially lively with a high degree of industrial interest.

A poster program was also held with 55 presentations. The poster program was divided into four sections with lively discussion and analysis of the results. It was generally agreed that this was the finest poster session in the history of this conference.

The consensus of conferees was that this year's program was highly successful in promoting an exchange of ideas and results in a wide-ranging field, and in highlighting important new directions of relevance to organometallic chemistry.

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1988 Gordon Research Conference on Organometallic Chemistry
Salve Regina College, Newport, Rhode Island

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Conference of Organometallic Chemistry
Salve Regina College, Newport, Rhode Island

ADDENDUM

Mrs. Bergman	307A
(guest of Robert Bergman)	
Mrs. Britzinger	204B
(guest of H.H. Britzinger)	
Mrs. Connolly	210B
(guest of John Connolly)	
Mrs. Howie	204A
(guest of M. S. Howie)	
Mrs. Interrante	310B
(guest of Len Interrante)	
Meta Katz	314B
(guest of Tom Katz)	
Mrs. Scalone	305A
(guest of Michelangelo Scalone)	

GORDON RESEARCH CONFERENCE ON ORGANOMETALLIC CHEMISTRY

June 27-July 1, 1988

Salve Regina College, Newport, R. I.

Richard Eisenberg, Chairman

Henry Bryndza and Tom Baker, Vice Co-Chairmen

Monday a.m. - "Organometallics in Polymerization Catalysis"

J. Bercaw, presiding

9:00 am Introductory remarks

9:05 R. R. Schrock (MIT) (35 min.)

Discussion (10 min.)

9:50 A. Janowicz (DuPont) (25 min.)

Discussion (10 min.)

10:25 Coffee Break

10:45 H. H. Brintzinger (Konstanz) (35 min.)

Discussion (10 min.)

11:30 R. F. Jordan (Washington State University) (25 min.)

Discussion (10 min.)

Monday p.m. - "Odd Electron Organometallics/ Para Hydrogen Polarization"

H. Bryndza, presiding

7:30 pm W. E. Geiger (Vermont) (30 min.)

Discussion (10 min.)

8:10 K. H. Theopold (Cornell) (25 min.)

Discussion (10 min.)

8:45 Break

9:00 D. P. Weitekamp (Caltech) (30 min.)

Discussion (10 min.)

9:40 R. Eisenberg (Rochester) (20 min.)

Discussion (10 min.)

Tuesday a.m. - "Organometallics Applied to Organic Synthesis"

T. Katz, presiding

9:00 am R. Noyori (Nagoya University) (40 min.)

Discussion (15 min.)

9:55 S. L. Buchwald (MIT) (25 min.)

Discussion (10 min.)

10:30 Coffee Break

10:50 L. S. Hegedus (Colorado State University) (30 min.)

Discussion (10 min.)

11:30 I. Ojima (SUNY - Stony Brook) (30 min.)

Discussion (10 min.)

Tuesday p.m. - "Organometallic Reactions and Mechanisms"

R. Bergman, presiding

7:30 pm R. H. Crabtree (Yale) (30 min.)

Discussion (10 min.)

8:10 Break

8:25 J. Halpern (University of Chicago) (35 min.)

Discussion (15 min.)

9:15 D. Milstein (Weizmann Institute) (30 min.)

Discussion (10 min.)

Wednesday a.m. - "Organometallics and New Materials"

T. Baker, presiding

- 9:00 M. L. Steigervald (AT&T Bell Laboratories) (35 min.)
Discussion (15 min.)
9:50 J. S. Bradley (Exxon) (25 min.)
Discussion (10 min.)
10:25 Coffee Break
10:45 L. V. Interrante (RPI) (30 min.)
Discussion (10 min.)
11:25 T. J. Lynch (University of Nevada - Reno) (25 min.)
Discussion (10 min.)

Wednesday p.m. - "New Techniques and Methods of Analysis"

C. P. Kubiak, presiding

- 7:30 pm P. S. Pregosin (ETH Zurich) (30 min.)
Discussion (10 min.)
8:10 Break
8:25 J. J. Turner (University of Nottingham) (35 min.)
Discussion (15 min.)
9:15 C. M. Friend (Harvard) (30 min.)
Discussion (10 min.)

Thursday a.m. - "Atom Transfer Reactions and Related Systems"

M. Darensbourg, presiding

- 9:00 am J. Groves (Princeton) (35 min.)
Discussion (15 min.)
9:50 P. Shapley (University of Illinois) (30 min.)
Discussion (10 min.)
10:30 Coffee Break
10:50 R. G. Finke (University of Oregon) (30 min.)
Discussion (10 min.)
11:30 J. M. Mayer (University of Washington) (30 min.)
Discussion (10 min.)

Thursday p.m. - "Redox and Photochemistry"

M. Brookhart, presiding

- 7:30 pm J. Kochi (Houston) (40 min.)
Discussion (15 min.)
8:25 Break
8:40 P. C. Ford (University of California - Santa Barbara) (30 min.)
Discussion (10 min.)

Friday a.m. - "Polynuclear Systems"

W. D. Jones, presiding

- 9:00 am A. L. Balch (University of California - Davis) (35 min.)
Discussion (10 min.)
9:45 J. Keister (SUNY - Buffalo) (25 min.)
Discussion (10 min.)
10:20 Coffee Break
10:40 Final Comments and Discussion (60 min.)
Emerging directions in organometallic chemistry; next year's agenda