

**ACS SYMPOSIUM ON
METAL-CARBOXYLATE PROTEINS
AND SYNTHETIC MODELS**

To be held at Anaheim, CA, USA

April 2-5, 1995

Co-organizers:

Don Kurtz and Karl Hagen

TENTATIVE PROGRAM:

Sunday a.m. Tutorial:

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|---------|---|---------------------------------|
| 8:45 - | Introductory Remarks | Karl Hagen and Don Kurtz |
| 9:00 - | Carboxylate ligation in metalloproteins and the carboxylate shift | Steve Lippard |
| 9:45 - | Overexpression and site-directed mutations of non-heme iron proteins, or
The synthetic analogue approach | Don Kurtz |
| 10:30 - | Mössbauer spectroscopy of non-heme iron proteins | Vince Huynh |
| 11:15 - | Saturation magnetization of metal complexes and proteins | Tad Day |

Sunday p.m.:

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|--------|--|----------------------|
| 1:30 - | Diiron oxo/hydroxo proteins. An overview of spectroscopy and structure, or
Vibrational spectroscopy of diiron and dimanganese proteins and models | Tom Loehr |
| 2:10 - | Iron-carboxylate complexes | Karl Hagen |
| 2:50 - | New, biologically relevant metal-carboxylate complexes | Steve Lippard |
| 3:30 - | ENDOR and ESEEM of diiron proteins | Brian Hoffman |
| 4:10 - | Magnetization of diiron(II) complexes and proteins | Tad Day |

Monday p.m.:

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|--------|---|-----------------------|
| 1:30 - | Crystal and molecular structures of ribonucleotide reductase and
rubrerythrin | Pär Nordlund |
| 2:10 - | Crystal and molecular structure of methane monooxygenase | Amy Rosenzweig |
| 2:50 - | Mechanisms of O ₂ reactions with the diiron sites in ribonucleotide
reductase and methane monooxygenase | Vince Huynh |
| 3:30 - | O ₂ activation by iron complexes | Larry Que, Jr. |
| 4:10 - | Fatty acid desaturases | Brian Fox |
| 4:50 - | Rubrerythrin | Don Kurtz |

Tuesday p.m.:

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|--------|--|------------------------|
| 1:30 - | Polyiron-oxo aggregates | Annie K. Powell |
| 2:10 - | Metal loading of ferritin and bacterioferritin | Ed Stiefel |
| 2:50 - | Manganese-carboxylate clusters | George Christou |
| 3:30 - | Manganese catalase and synthetic models | Chuck Dismukes |
| 4:10 - | Arginase | David Ash |

Wednesday a.m.:

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|---------|--|----------------------|
| 8:30 - | Acid phosphatases | Bernt Krebs |
| 9:10 - | Urease | Andy Karplus |
| 9:50 - | Phospholipase C | Li-June Ming |
| 10:30 - | Dimetal aminopeptidases | Richard Holz |
| 11:10 - | Chromium-carboxylates and glucose tolerance factor | John Vincence |

More information can be obtained from:

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