

## Day 5 Programming

### ACS National Awards Plenary Sessions:

09:00am - 12:00pm USA / Canada - Pacific - April 9, 2021

**Alison Butler, Organizer, Presider** | **Dr Stephen A. Koch, Organizer** | **Nora Radu, Organizer** | **Ana De Bettencourt Dias, Presider** | **Andy Borovik, Presider**

Friday

### Stabilizing unusual oxidation states and promoting small molecule activation in lanthanide and uranium chemistry

09:00am - 09:45am USA / Canada - Pacific - April 9, 2021

**Marinella Mazzanti, Presenter**

### Updated perspectives on biology's use of fixed nitrogen as cellular fuel

09:45am - 10:30am USA / Canada - Pacific - April 9, 2021

**Kyle Lancaster, Presenter**

### Teaching research: 25 years of coordination chemistry with chalcogen-based ligands

10:30am - 11:15am USA / Canada - Pacific - April 9, 2021

**Daniel Rabinovich, Presenter**

### Copper-dependent biological methane oxidation

11:15am - 12:00pm USA / Canada - Pacific - April 9, 2021

**Amy C. Rosenzweig, Presenter**

Friday

### Panel Discussion: Applying for Academic Jobs in a Research University

12:00pm - 01:00pm USA / Canada - Pacific - April 9, 2021 | Room: Virtual Room

Friday

### F. Albert Cotton Award in Synthetic Inorganic Chemistry (2021): Symposium honoring Marinella Mazzanti:

01:00pm - 04:00pm USA / Canada - Pacific - April 9, 2021

**Rebecca Abergel, Organizer, Presider** | **Greg Nocton, Organizer, Presider**

### Introductory Remarks

01:00pm - 01:05pm USA / Canada - Pacific - April 9, 2021

Friday

### Accurate quantum chemical calculations of transition-metal and actinide compounds

01:05pm - 01:35pm USA / Canada - Pacific - April 9, 2021

**Laura Gagliardi, Presenter**

### F-element reactivity: Examples of interplay between theory and experiment ?

01:35pm - 01:55pm USA / Canada - Pacific - April 9, 2021

**Laurent Maron, Presenter**

### Metal complexes supported by ferrocene diamide ligands

01:55pm - 02:15pm USA / Canada - Pacific - April 9, 2021

**Prof. Paula L. Diaconescu, Presenter**

### Electrochemical CO<sub>2</sub> reduction using bio-inspired molecular complexes

02:15pm - 02:35pm USA / Canada - Pacific - April 9, 2021

Victor Mougel, Presenter | Subal Dey | Marc Fontecave | Ahmed Mouchfiq | Tanya Todorova

Friday

### Intermission

02:35pm - 02:50pm USA / Canada - Pacific - April 9, 2021

Friday

### Combining structural, spectroscopic, and biochemical tools to explore coordination chemistry across the actinide series

02:50pm - 03:05pm USA / Canada - Pacific - April 9, 2021

Korey Carter, Presenter | Katherine Shield | Gauthier Deblonde | Trevor Lohrey | Peter Rupert | Marc Allaire | Dahlia An | Kurt Smith | Jennifer Wacker | Liane Moreau | Stosh Kozimor | Corwin Booth | Roland Strong | Rebecca Abergel

### Bispidine-type ligands for Mn(II) complexation and their application to PET/MRI

03:05pm - 03:20pm USA / Canada - Pacific - April 9, 2021

SY Maryame, Presenter | Daouda Ndiaye | Agnès Pallier | Sandra Mème | Isidro Da Silva | Sara Lacerda | Aline Nonat | Loïc Charbonnière | Eva Toth

### Photophysics and cytotoxicity of oligothiophene-based photosensitizers and of their lanthanide complexes

03:20pm - 03:35pm USA / Canada - Pacific - April 9, 2021

Josiane Sobrinho, Presenter | Ana De Bettencourt Dias

### Dynamic crystals whose luminescence respond to external stimulus

03:35pm - 03:55pm USA / Canada - Pacific - April 9, 2021

Alan Balch, Presenter | Lucy Luong | Daniel Walters | Reza Babadi Aghakhanpour | Kamran Ghiassi | Venos Moshayedi | Xian Carroll | Mark Malwitz | Marilyn Olmstead

### Concluding Remarks

03:55pm - 04:00pm USA / Canada - Pacific - April 9, 2021

Friday

### ACS Award for Research at an Undergraduate Institution (2021): Symposium Honoring Daniel Rabinovich:

01:00pm - 04:00pm USA / Canada - Pacific - April 9, 2021

Alison Fout, Organizer, Presider | Samuel Kyran, Presider

Friday

### The Rabinovich effect. An account of how outstanding supervision and mentorship of an undergraduate chemical professional in synthetic inorganic chemistry had an effect on my science and career

01:00pm - 01:25pm USA / Canada - Pacific - April 9, 2021

Daniel Mindiola, Presenter

Friday

### Designing polymers for a sustainable future

01:25pm - 01:50pm USA / Canada - Pacific - April 9, 2021

Samuel Kyran, Presenter

Friday

### Intermission

01:50pm - 02:00pm USA / Canada - Pacific - April 9, 2021

Friday

## Withdrawn

02:00pm - 02:25pm USA / Canada - Pacific - April 9, 2021

### Modeling the activation of the NO moiety in ferrous-NO porphyrins towards reactivity with external NO: Relevance to bacterial NO reduction

02:25pm - 02:50pm USA / Canada - Pacific - April 9, 2021

Erwin Abucayon | Rahul Khade | Dr. Yong Zhang | George Richter-Addo, Presenter

Friday

## Intermission

02:50pm - 03:00pm USA / Canada - Pacific - April 9, 2021

Track: [INOR] Division of Inorganic Chemistry

Friday

### Isolation and oxidative reactivity via ligand-based non-innocence of a redox series of cobalt complexes

03:00pm - 03:25pm USA / Canada - Pacific - April 9, 2021

Sophie Whitmeyer, Presenter | John Anderson

### Twenty-three years of adventures with Dan Rabinovich

03:25pm - 03:50pm USA / Canada - Pacific - April 9, 2021

Gregory Grant, Presenter

## Concluding Remarks

03:50pm - 04:00pm USA / Canada - Pacific - April 9, 2021

Friday

### The Jonathan L. Sessler Fellowship for Emerging Leaders in Bioinorganic and Medicinal Inorganic Chemistry: Symposium Honoring Justin J. Wilson and Eszter Boros:

01:00pm - 03:55pm USA / Canada - Pacific - April 9, 2021

Jonathan Sessler, Organizer, Presider

Friday

## Introductory Remarks

01:00pm - 01:05pm USA / Canada - Pacific - April 9, 2021

Friday

### Thiosemicarbazone and hydrazone prochelators for iron sequestration: Spectroscopic studies and biological activity in malignant cells

01:05pm - 01:30pm USA / Canada - Pacific - April 9, 2021

Elisa Tomat, Presenter

### Metallo drug photosensitizers for light-based cancer therapy

01:30pm - 01:55pm USA / Canada - Pacific - April 9, 2021

Sherri McFarland, Presenter

### Radicals in coordination chemistry

01:55pm - 02:20pm USA / Canada - Pacific - April 9, 2021

Theodore Betley, Presenter

Friday

## Intermission

02:20pm - 02:35pm USA / Canada - Pacific - April 9, 2021

Track: [INOR] Division of Inorganic Chemistry

Friday

### **Nitrite and azide reduction to ammonia by a non-heme iron complex**

02:35pm - 03:00pm USA / Canada - Pacific - April 9, 2021

**Tabitha Miller** | **Alison Fout, Presenter**

### **Metal-based hydrogen sulfide-releasing agents for modulating cellular function**

03:00pm - 03:25pm USA / Canada - Pacific - April 9, 2021

**Justin Wilson, Presenter** | **Joshua Woods** | **Faith Chen** | **Ruth Mandel** | **Phillip Milner**

### **Cherenkov radiation mediated excitation of lanthanide luminescence: Towards in vivo compatible, lanthanide-based optical probes**

03:25pm - 03:50pm USA / Canada - Pacific - April 9, 2021

**Dr. Eszter Boros, Presenter** | **Alexia Cosby** | **Kirsten Martin**

### **Concluding Remarks**

03:50pm - 03:55pm USA / Canada - Pacific - April 9, 2021

Friday

### **Bioinorganic Chemistry:**

01:00pm - 04:00pm USA / Canada - Pacific - April 9, 2021

**Dr Stephen A. Koch, Organizer** | **Lionel Cheruzel, Presider**

Friday

### **Cu-aqua and -hydroxido complexes for multielectron processes**

01:00pm - 01:20pm USA / Canada - Pacific - April 9, 2021

**Dolores Ross, Presenter** | **Saborni Biswas** | **Andrew Jasniewski** | **Michael Hendrich** | **Andrew Borovik**

### **Synthetic models for metalloenzyme active sites: Accessing high valent non-heme diiron complexes**

01:20pm - 01:40pm USA / Canada - Pacific - April 9, 2021

**Justin Lee, Presenter** | **Saborni Biswas** | **Joseph Ziller** | **Michael Hendrich** | **Andrew Borovik**

### **Effects of metal–ligand covalency on valence electron (de)localization in iron–sulfur clusters**

01:40pm - 02:00pm USA / Canada - Pacific - April 9, 2021

**Dr. Niklas B. Thompson, Presenter** | **Mengshan Ye** | **Alex McSkimming** | **Arun Sridharan** | **Alexandra Brown** | **Daniel Suess**

### **Ru(II)-diimine complexes coupled with P450 enzymes**

02:00pm - 02:20pm USA / Canada - Pacific - April 9, 2021

**Lionel Cheruzel, Presenter**

### **Redox-inactive metals and redox-active ligand complexes function as superoxide dismutase mimics**

02:20pm - 02:40pm USA / Canada - Pacific - April 9, 2021

**Jamonica L. Moore, Presenter** | **Dean Schwartz** | **Christian Goldsmith**

### **Determining the spin states of nonheme FeIV=O complexes by NMR spectroscopy**

02:40pm - 03:00pm USA / Canada - Pacific - April 9, 2021

**Ahmed Aboelenen, Presenter** | **Waqas Rasheed** | **Saikat Banerjee** | **Lawrence Que**

**The multifunctional catalytic globin dehaloperoxidase as an unspecific peroxygenase in the oxidation of monoterpenes**

03:00pm - 03:20pm USA / Canada - Pacific - April 9, 2021

**Talita Malewschik, Presenter** | **Prof. Reza A. Ghiladi, PhD**

**Transition metal organometallics as therapeutic agents against bacteria and viruses**

03:20pm - 03:40pm USA / Canada - Pacific - April 9, 2021

**Professor Joseph S. Merola, Presenter**

**Exploring higher oxidation states of Mn in a MnIII-( $\mu$ -OH)-CaII heterobimetallic mimic of the oxygen evolving complex (OEC)**

03:40pm - 04:00pm USA / Canada - Pacific - April 9, 2021

**WOORMILEELA SINHA, Presenter** | **Victoria Oswald** | **Andrew Borovik**