

Day 3 Programming
Wednesday

ACS National Awards Plenary Sessions:

09:00am - 12:00pm USA / Canada - Pacific - April 7, 2021

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

Track: [INOR] Division of Inorganic Chemistry

Add to Calendar

Division/Committee: [INOR] Division of Inorganic Chemistry

Wednesday

On being a quantum inorganic chemist: The importance of bonding in and within inorganic chemistry

09:00am - 09:45am USA / Canada - Pacific - April 7, 2021

Bruce Bursten, Presenter

The molecular chemistry of extended solids

09:45am - 10:30am USA / Canada - Pacific - April 7, 2021

Hemamala Karunadasa, Presenter

Learning, earning, and returning: A science journey

10:30am - 11:15am USA / Canada - Pacific - April 7, 2021

Carol Burns, Presenter

Main group inorganic chemistry

11:15am - 12:00pm USA / Canada - Pacific - April 7, 2021

Karl Christe, Presenter

Wednesday

ACS Award for Distinguished Service in the Advancement of Inorganic Chemistry (2020): Symposium Honoring Bruce E. Bursten:

01:00pm - 04:00pm USA / Canada - Pacific - April 7, 2021

Tim Barcholtz, Organizer, Presider | **Dr. Sibrina Collins, Organizer** | **Alfred Sattelberger, Organizer**

Wednesday

Introductory Remarks

01:00pm - 01:05pm USA / Canada - Pacific - April 7, 2021

Wednesday

Rapid and selective lanthanide-mediated catalytic deoxygenative reduction of amides to amines. Scope and mechanism

01:05pm - 01:25pm USA / Canada - Pacific - April 7, 2021

Tobin Marks, Presenter

Structure and reactivity of thorium and uranium phosphorus bonds

01:25pm - 01:45pm USA / Canada - Pacific - April 7, 2021

Justin Walensky, Presenter

Chelate stabilization of low-valent uranium complexes of unsaturated hydrocarbon ligands: synthesis of a U(II) amide complex

01:45pm - 02:05pm USA / Canada - Pacific - April 7, 2021

James Boncella, Presenter | **Aaron Tondreau** | **Brennan Billow**

Soft X-ray synchrotron radiation studies of f-element materials complemented by theory and computation

02:05pm - 02:25pm USA / Canada - Pacific - April 7, 2021

David Shuh, Presenter

Wednesday

Intermission

02:25pm - 02:30pm USA / Canada - Pacific - April 7, 2021

Track: [INOR] Division of Inorganic Chemistry

Wednesday

Single-molecule photocatalytic production of hydrogen with red light

02:30pm - 02:50pm USA / Canada - Pacific - April 7, 2021

Claudia Turro, Presenter

Synthesis and characterization of trivalent molybdenum and tungsten ether adducts

02:50pm - 03:10pm USA / Canada - Pacific - April 7, 2021

Alfred Sattelberger, Presenter | **Thomas Shaw** | **Titel Jurca**

Structure and bonding with Bruce Bursten

03:10pm - 03:30pm USA / Canada - Pacific - April 7, 2021

David Clark, Presenter

Amine borane chemistry with actinides: Musings at the bottom of the periodic table with Bruce Bursten

03:30pm - 03:50pm USA / Canada - Pacific - April 7, 2021

Dr. Jaqueline L. Kiplinger, Presenter

CO₂ capture using carbonate fuel cells

03:50pm - 04:00pm USA / Canada - Pacific - April 7, 2021

Timothy Barckholtz, Presenter

Track: [INOR] Division of Inorganic Chemistry

Wednesday

Harry Gray Award for Creative Work in Inorganic Chemistry by a Young Investigator (2021): Symposium Honoring Smaranda C. Marinescu:

01:00pm - 04:00pm USA / Canada - Pacific - April 7, 2021

Jenny Yang, Organizer | **John Bercaw, Presider**

Wednesday

Boronated cyanometalates

01:00pm - 01:25pm USA / Canada - Pacific - April 7, 2021

Harry Gray, Presenter | **Brendon McNicholas**

Molecular control of interfacial inner-sphere electron transfer through graphite conjugation

01:25pm - 01:45pm USA / Canada - Pacific - April 7, 2021

Megan Jackson, Presenter | **Yogesh Surendranath**

Reorganization energies for electron and proton-coupled electron transfer reactions at conductive interfaces

01:45pm - 02:10pm USA / Canada - Pacific - April 7, 2021

Gerald Meyer, Presenter

21st Century alchemy: Making coinage metals look like Ir

02:10pm - 02:35pm USA / Canada - Pacific - April 7, 2021

Mark E. Thompson, Presenter | **Tian Yi Li** | **Peter Djurovich**

Wednesday

Intermission

02:35pm - 02:50pm USA / Canada - Pacific - April 7, 2021

Track: [INOR] Division of Inorganic Chemistry

Wednesday

Understanding the role of Lewis acids in carbon dioxide utilization

02:50pm - 03:10pm USA / Canada - Pacific - April 7, 2021

Nilay Hazari, Presenter | **Wesley Bernskoetter**

Exploring the implications of interfacial electric fields on molecular catalysts

03:10pm - 03:35pm USA / Canada - Pacific - April 7, 2021

Clifford Kubiak, Presenter | **Felix Brunner** | **Chris Miller** | **Joseph Palasz**

Synthesis and chemistry of high oxidation state molybdenum and tungsten disubstituted alkylidene complexes

03:35pm - 04:00pm USA / Canada - Pacific - April 7, 2021

Richard Schrock, Presenter

Wednesday

Organometallic Chemistry: New Ligand Platforms:

01:00pm - 03:00pm USA / Canada - Pacific - April 7, 2021

Nora Radu, Organizer | **Thomas Gianetti, Presider**

Wednesday

Transition metal complexes of malondialdehyde, the simplest β -dicarbonylate

01:00pm - 01:20pm USA / Canada - Pacific - April 7, 2021

Nathan Edmonson, Presenter | **Gregory Girolami**

Metalla-GAP as an enabling new methodology in transition metal catalysis

01:20pm - 01:40pm USA / Canada - Pacific - April 7, 2021

Andrew King | **Sheng Zhang** | **Guigen Li** | **Professor Michael Findlater, Presenter**

Indol-2-ylidene (IdY): Ambiphilic N-heterocyclic carbene derived from indole

01:40pm - 02:00pm USA / Canada - Pacific - April 7, 2021

Hyunho Kim, Presenter | **Minseop Kim** | **Hayoung Song** | **Eunsung Lee**

Alkali metal complexes of dibenzo[a,e]cyclooctatetraene: New ligand transfer reagents

02:00pm - 02:20pm USA / Canada - Pacific - April 7, 2021

Yikun Zhu, Presenter | **Zheng Zhou** | **Zheng Wei** | **Marina Petrukhina**

Breaking the C3-symmetry of tris(amido)amine ligands: Synthesis, structure and metalation

02:20pm - 02:40pm USA / Canada - Pacific - April 7, 2021

Marilyn Naeem, Presenter | **David Manke**

A Lewis acidic, photo- and redox-active, carbocation-based ligand platform

02:40pm - 03:00pm USA / Canada - Pacific - April 7, 2021

Iangyong Mei | **Jules Moutet** | **Jose Veleta** | **Mubarak Hossain** | **Thomas Gianetti, Presenter**

Wednesday

Bioinorganic Social Hour

04:00pm - 05:00pm USA / Canada - Pacific - April 7, 2021

Wednesday

Harry Gray Award for Creative Work in Inorganic Chemistry by a Young Investigator (2021): Symposium Honoring Smaranda C. Marinescu:

05:00pm - 08:00pm USA / Canada - Pacific - April 7, 2021

[Jenny Yang, Organizer](#) | [Nilay Hazari, Presider](#)

Wednesday

[Polycationic iron electrocatalysts for O₂ and CO₂ reduction: Electrostatic effects of the charges and their positioning](#)

05:00pm - 05:25pm USA / Canada - Pacific - April 7, 2021

[James Mayer, Presenter](#) | [Daniel Martin](#) | [Eleanor Stewart-Jones](#)

[Conversion of oxygenated C₁ feedstocks to C₂+ products: Mechanism and electrochemistry with molecular and heterogeneous systems](#)

05:25pm - 05:45pm USA / Canada - Pacific - April 7, 2021

[Theodor Agapie, Presenter](#)

[Atomically precise nanoclusters as catalysts and building blocks for low dimensional nanomaterials](#)

05:45pm - 06:05pm USA / Canada - Pacific - April 7, 2021

[Alexandra Velian, Presenter](#) | [Jonathan Kephart](#) | [Benjamin Mitchell](#) | [Andrei Chirila](#)

[Postbiosynthetic modification of nitrogenase cofactors](#)

06:05pm - 06:25pm USA / Canada - Pacific - April 7, 2021

[Daniel Suess, Presenter](#)

Wednesday

[Intermission](#)

06:25pm - 06:40pm USA / Canada - Pacific - April 7, 2021

Track: [INOR] Division of Inorganic Chemistry

Wednesday

[Developing a mild and modular route to chemically modified electrodes for photoelectrochemical cells](#)

06:40pm - 07:00pm USA / Canada - Pacific - April 7, 2021

[Caitlin Hanna](#) | [Jenny Yang, Presenter](#)

[Development of synthetic routes to electrocatalysts for energy conversion reactions](#)

07:00pm - 07:20pm USA / Canada - Pacific - April 7, 2021

[Applicability of N-heterocyclic carbene ligands to colloidal nanocrystal surface passivation and catalysis](#)

07:20pm - 07:40pm USA / Canada - Pacific - April 7, 2021

[Prof. Richard L. Brutchey, Presenter](#)

[Halide perovskites under pressure](#)

07:40pm - 08:00pm USA / Canada - Pacific - April 7, 2021

[Adam Jaffe](#) | [Yu Lin](#) | [Stephanie Mack](#) | [Jung-Hoon Lee](#) | [Jeffrey B Neaton](#) | [Wendy Mao](#) | [Hemamala Karunadasa, Presenter](#)

Wednesday

[Undergraduate Research at the Frontiers of Inorganic Chemistry: Applications of Metal Complexes Part 1](#)

05:00pm - 07:55pm USA / Canada - Pacific - April 7, 2021

[Chip Nataro, Organizer, Presider](#) | [Pius Adelani, Presider](#)

Wednesday

[Introductory Remarks](#)

05:00pm - 05:05pm USA / Canada - Pacific - April 7, 2021

Wednesday

[Ni\(II\) borohydride converts perchloroethylene to trichloroethylene](#)

05:05pm - 05:25pm USA / Canada - Pacific - April 7, 2021

[Dr. Katherine Van Heuvelen, Presenter](#)

[Study and reactivity of unsymmetrical nickel bis\(phosphino\)pyrrole complexes in Buchwald-Hartwig amination](#)

05:25pm - 05:45pm USA / Canada - Pacific - April 7, 2021

[Julia Vidlak, Presenter](#) | [Miles Johnson](#)

[Progress on the development of greener protocols for synthesizing substituted quinoxalines for use as cyclometallating ligands in late transition metal complexes](#)

05:45pm - 06:05pm USA / Canada - Pacific - April 7, 2021

[Anthony Rodriguez, Presenter](#) | [Wyatt Murphy](#) | [David Laviska](#)

[When computational chemistry fails: Modeling geometries of nickel\(II\) diphosphine complexes](#)

06:05pm - 06:25pm USA / Canada - Pacific - April 7, 2021

[Sydney Towell, Presenter](#) | [Chip Nataro](#) | [Adam Johnson](#)

Wednesday

[Intermission](#)

06:25pm - 06:35pm USA / Canada - Pacific - April 7, 2021

Track: [INOR] Division of Inorganic Chemistry

Wednesday

[Cytotoxicity of a carboxylate-supported complex of rhenium\(I\) prepared from the acidolysis reaction of a pentylcarbonato ligand](#)

06:35pm - 06:55pm USA / Canada - Pacific - April 7, 2021

[Arbaz Khan](#) | [Jeffrey Weisburg](#) | [Emily Tumbaco](#) | [Charmi Patel](#) | [Gregory Moehring, Presenter](#) | [Datta Naik](#)

[Elucidating the structure of a four-repeat Satellite III DNA sequence](#)

06:55pm - 07:15pm USA / Canada - Pacific - April 7, 2021

[Erin Chen, Presenter](#) | [Liliya Yatsunyk](#) | [Hyun Kyung Lee](#)

[Synthesis and oxidative reactivity of a manganese\(II\) active site model of the mammalian enzyme manganese acireductone dioxygenase \(Mn-ARD\)](#)

07:15pm - 07:35pm USA / Canada - Pacific - April 7, 2021

[Glenn A. Blade, Presenter](#) | [Rose Smiley](#) | [Vincent Lynch](#) | [Santiago Toledo](#)

[Withdrawn](#)

07:35pm - 07:55pm USA / Canada - Pacific - April 7, 2021

Wednesday

[Bioinorganic Chemistry:](#)

05:00pm - 08:00pm USA / Canada - Pacific - April 7, 2021

[Dr Stephen A. Koch, Organizer](#) | [Yong Zhang, Presider](#)

Wednesday

[Redox-active tridentate copper complexes with symmetric tunable hydrogen bonds](#)

05:00pm - 05:20pm USA / Canada - Pacific - April 7, 2021

[Tong Wu, Presenter](#) | [Khashayar Rajabimoghadam](#) | [Isaac Garcia-Bosch](#)

[Nitric oxide release from nitrite at copper via O-atom transfer](#)

05:20pm - 05:40pm USA / Canada - Pacific - April 7, 2021

[Molly Atkinson, Presenter](#) | [Sima Sakhaei](#) | [Christine Greene](#) | [Timothy Warren](#)

Forming N-N bonds: Isolation of a copper cis-hyponitrite complex

05:40pm - 06:00pm USA / Canada - Pacific - April 7, 2021

[Pokhraj Ghosh, Presenter](#) | [Valiallah Hosseininasab](#) | [Subrata Kundu](#) | [Jeffery Bertke](#) | [Timothy Warren](#)

Synthetic analogue of aerobic CODH core structure reveals a co-operative ligand-metal FLP active core imposed by protein scaffold

06:00pm - 06:20pm USA / Canada - Pacific - April 7, 2021

[Dibbendu Ghosh, Presenter](#) | [Soumen Sinhababu](#) | [Neal Mankad](#)

Exceptionally high O-H bond dissociation free energy of a dicopper(II) μ -hydroxo complex and insights into the geometric and electronic structure origins thereof

06:20pm - 06:40pm USA / Canada - Pacific - April 7, 2021

[Peter VanNatta, Presenter](#) | [David Ramirez](#) | [Andres Velarde](#) | [Ghazanfar Ali](#) | [Matthew Kieber-Emmons](#)

Biosynthesis of copper-chelating natural products, methanobactins

06:40pm - 07:00pm USA / Canada - Pacific - April 7, 2021

[Yun Ji Park, Presenter](#) | [Amy C. Rosenzweig](#)

Fluorinated CuATSM conjugates for detecting cellular hypoxia

07:00pm - 07:20pm USA / Canada - Pacific - April 7, 2021

[Rahul Kadakia, Presenter](#) | [Emily Que](#)

Reversible isomerization of a trans μ -1,2-peroxo dicopper core induced by a redox-inactive metal cation.

07:20pm - 07:40pm USA / Canada - Pacific - April 7, 2021

[Natasha Vargo, Presenter](#) | [Jill Harland](#) | [Brad Musselman](#) | [Nicolai Lehnert](#) | [Mehmed Ertem](#) | [Jerome R. Robinson](#)

Mechanistic investigation of HNO to NO conversion via copper zinc superoxide dismutase (CuZnSOD)

07:40pm - 08:00pm USA / Canada - Pacific - April 7, 2021

[Yelu Shi](#) | [Matthew Michael](#) | [Yong Zhang, Presenter](#)