

ACS National Awards Plenary Sessions:

10:00am - 01:00pm USA - Mountain - April 5, 2021

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

Track: [INOR] Division of Inorganic Chemistry

Division/Committee: [INOR] Division of Inorganic Chemistry

Monday

Introductory Remarks

10:00am - 10:15am USA - Mountain - April 5, 2021

Track: [INOR] Division of Inorganic Chemistry

Monday

Coordination chemistry from an anion perspective

10:15am - 11:00am USA - Mountain - April 5, 2021

Kristin Bowman-James, Presenter

Track: [INOR] Division of Inorganic Chemistry

Monday

Inorganic chemistry on the nanoscale

11:00am - 11:45am USA - Mountain - April 5, 2021

Catherine Murphy, Presenter

Track: [INOR] Division of Inorganic Chemistry

Monday

Intermission

11:45am - 12:15pm USA - Mountain - April 5, 2021

Track: [INOR] Division of Inorganic Chemistry

Monday

Bioinspired coordination complexes and polymers for solar energy conversion

12:15pm - 01:00pm USA - Mountain - April 5, 2021

Smaranda Marinescu, Presenter

Track: [INOR] Division of Inorganic Chemistry

Monday

ACS Award in Inorganic Chemistry (2020) Symposium Honoring Catherine Jones Murphy:

02:00pm - 04:50pm USA - Mountain - April 5, 2021

Thomas Rauchfuss, Organizer | **Lucas Thompson, Organizer, Presider** | **Simona Hunyadi Murph, Presider**

Track: [INOR] Division of Inorganic Chemistry

Division/Committee: [INOR] Division of Inorganic Chemistry

Monday

Introductory Remarks

02:00pm - 02:10pm USA - Mountain - April 5, 2021

Track: [INOR] Division of Inorganic Chemistry

Monday

Polyelectrolyte multilayers for controlled assembly of gold nanorods

02:10pm - 02:35pm USA - Mountain - April 5, 2021

Lucas Thompson, Presenter

Track: [INOR] Division of Inorganic Chemistry

Monday

Acid-base and photoredox chemistry at illuminated semiconductor-liquid interfaces.

02:35pm - 03:00pm USA - Mountain - April 5, 2021

Gerald Meyer, Presenter

Track: [INOR] Division of Inorganic Chemistry

Monday

Single-particle orientation sensing by deep learning

03:00pm - 03:25pm USA - Mountain - April 5, 2021

Teri Odom, Presenter

Track: [INOR] Division of Inorganic Chemistry

Monday

Intermission

03:25pm - 03:35pm USA - Mountain - April 5, 2021

Track: [INOR] Division of Inorganic Chemistry

Monday

Aluminum nanocrystal growth chemistry: Similarities with our noble neighbors

03:35pm - 04:00pm USA - Mountain - April 5, 2021

Naomi Halas, Presenter

Track: [INOR] Division of Inorganic Chemistry

Monday

Understanding and controlling electrochemistry for electrolyzers

04:00pm - 04:25pm USA - Mountain - April 5, 2021

Andrew Gewirth, Presenter

Track: [INOR] Division of Inorganic Chemistry

Monday

Transition metal complexes for dual-action photochemotherapy from a single molecule

04:25pm - 04:50pm USA - Mountain - April 5, 2021

Claudia Turro, Presenter

Track: [INOR] Division of Inorganic Chemistry

Monday

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

02:00pm - 04:50pm USA - Mountain - April 5, 2021

Alison Fout, Organizer, Presider

Track: [INOR] Division of Inorganic Chemistry

Division/Committee: [INOR] Division of Inorganic Chemistry

Monday

Introductory Remarks

02:00pm - 02:05pm USA - Mountain - April 5, 2021

Track: [INOR] Division of Inorganic Chemistry

Monday

Monoxygenase-catalyzed ring opening of benzene to muconaldehyde likely involves 2,3-epoxyoxepin

02:05pm - 02:30pm USA - Mountain - April 5, 2021

Arthur Greenberg, Presenter

Track: [INOR] Division of Inorganic Chemistry

Monday

Photophysical and magnetophysical responses of lanthanide complexes and composites

02:30pm - 02:55pm USA - Mountain - April 5, 2021

Alvaro de Sousa, Presenter

Track: [INOR] Division of Inorganic Chemistry

Monday

100 Years of creating the common language of chemistry and more

02:55pm - 03:20pm USA - Mountain - April 5, 2021

Javier Garcia Martinez, Presenter

Track: [INOR] Division of Inorganic Chemistry

Monday

Intermission

03:20pm - 03:35pm USA - Mountain - April 5, 2021

Track: [INOR] Division of Inorganic Chemistry

Monday

Cobalt-catalyzed parahydrogen induced polarization of olefins

03:35pm - 04:00pm USA - Mountain - April 5, 2021

Safiyah Muhammad | **Boyd Goodson** | **Alison Fout, Presenter**

Track: [INOR] Division of Inorganic Chemistry

Monday

Expanding the X-bonding periodic table.

04:00pm - 04:25pm USA - Mountain - April 5, 2021

William Pennington, Presenter | **Daniel Rabinovich** | **Andrew Peloquin** | **Khadijatul Kobra** | **Colin McMillen**

Track: [INOR] Division of Inorganic Chemistry

Monday

Alkene and alkyne complexes of copper pyrazolates

04:25pm - 04:50pm USA - Mountain - April 5, 2021

Rasika Dias, Presenter | **Devaborniny Parasar**

Track: [INOR] Division of Inorganic Chemistry

Monday

The Inorganic Chemistry Lectureship:

02:00pm - 05:00pm USA - Mountain - April 5, 2021

William Tolman, Organizer, Presenter

Track: [INOR] Division of Inorganic Chemistry

Division/Committee: [INOR] Division of Inorganic Chemistry

Monday

Supramolecular gold recovery facilitated by the second-sphere coordination

02:00pm - 02:20pm USA - Mountain - April 5, 2021

Huang Wu | **Wenqi Liu** | **James Stoddart, Presenter**

Track: [INOR] Division of Inorganic Chemistry

Monday

Multi-electron redox chemistry with thorium(IV) iminoquinone complexes

02:20pm - 02:40pm USA - Mountain - April 5, 2021

Suzanne Bart, Presenter | **D. M. Ramitha Y. P. Rupasinghe** | **Makayla Baxter** | **Matthias Zeller**

Track: [INOR] Division of Inorganic Chemistry

Monday

Polarization of bonding in berkelium and cerium terpy complexes

02:40pm - 03:00pm USA - Mountain - April 5, 2021

Thomas Albrecht-Schmitt, Presenter

Track: [INOR] Division of Inorganic Chemistry

Monday

Mechanistic insights into peroxide-selective oxygen reduction promoted by redox-inactive metal ions

03:00pm - 03:20pm USA - Mountain - April 5, 2021

Jerome R. Robinson, Presenter | **Matthew Lueckheide** | **Natasha Vargo** | **Mehmed Ertem**

Track: [INOR] Division of Inorganic Chemistry

Monday

Intermission

03:20pm - 03:30pm USA - Mountain - April 5, 2021

Track: [INOR] Division of Inorganic Chemistry

Monday

Thorium and uranium 2-metallabiphenylene complexes

03:30pm - 03:50pm USA - Mountain - April 5, 2021

Jaqueline Kiplinger, Presenter

Track: [INOR] Division of Inorganic Chemistry

Monday

Ligand Flexibility in Surface-Inspired Cluster Chemistry

03:50pm - 04:10pm USA - Mountain - April 5, 2021

Neil Tomson, Presenter

Track: [INOR] Division of Inorganic Chemistry

Monday

Recent developments in reductive rare-earth metal chemistry

04:10pm - 04:30pm USA - Mountain - April 5, 2021

William Evans, Presenter

Track: [INOR] Division of Inorganic Chemistry

Monday

Coordination chemistry principles applied to sustainable separations of metal ions

04:30pm - 05:00pm USA - Mountain - April 5, 2021

Eric Schelter, Presenter

Track: [INOR] Division of Inorganic Chemistry

Monday

ACS Award in Inorganic Chemistry (2020) Symposium Honoring Catherine Jones Murphy:

06:00pm - 08:50pm USA - Mountain - April 5, 2021

Thomas Rauchfuss, Organizer | **Lucas Thompson, Organizer, Presider** | **Sherine Obare, Presider**

Track: [INOR] Division of Inorganic Chemistry

Division/Committee: [INOR] Division of Inorganic Chemistry

Monday

Introductory Remarks

06:00pm - 06:10pm USA - Mountain - April 5, 2021

Track: [INOR] Division of Inorganic Chemistry

Monday

DNA-mediated charge transport: From metal complexes to metalloproteins

06:10pm - 06:35pm USA - Mountain - April 5, 2021

Prof. Jacqueline K. Barton, Presenter

Track: [INOR] Division of Inorganic Chemistry

Monday

Megalibraries: Tools for exploring and expanding the materials genome

06:35pm - 07:00pm USA - Mountain - April 5, 2021

Chad Mirkin, Presenter

Track: [INOR] Division of Inorganic Chemistry

Monday

Seeding new ideas with the synthesis of gold nanorods

07:00pm - 07:25pm USA - Mountain - April 5, 2021

Sara Skrabalak, Presenter

Track: [INOR] Division of Inorganic Chemistry

Monday

Intermission

07:25pm - 07:35pm USA - Mountain - April 5, 2021

Track: [INOR] Division of Inorganic Chemistry

Monday

Influence of nanodiamond surface ligand structure on interaction with model membranes and bacterial membranes

07:35pm - 08:00pm USA - Mountain - April 5, 2021

Robert Hamers, Presenter | **Yongqian Zhang** | **Christy Haynes** | **Zeev Rosenzweig** | **Sara Mason** | **Vivian Feng**

Track: [INOR] Division of Inorganic Chemistry

Monday

Managing proton gradients with bipolar membranes in CO₂ electrolysis, fuel cells, and redox flow batteries

08:00pm - 08:25pm USA - Mountain - April 5, 2021

Zhifei Yan | **Jeremy Hitt** | **Zichen Zeng** | **Langqiu Xiao** | **Yein Yoon** | **Michael Hickner** | **Ryszard Wycisk** | **Peter Pintauro** | **Thomas Mallouk, Presenter**

Track: [INOR] Division of Inorganic Chemistry

Monday

Controlling nanoarchitectures through holistic metal chemistry

08:25pm - 08:50pm USA - Mountain - April 5, 2021

Jill Millstone, Presenter

Track: [INOR] Division of Inorganic Chemistry

Monday

ACS Award in Inorganic Chemistry (2021) Symposium Honoring Kristin Bowman-James: Supramolecular Chemistry

06:00pm - 09:00pm USA - Mountain - April 5, 2021

Debbie Crans, Organizer | **Marcetta Darensbourg, Organizer, Presider** | **Marilyn Rampersad Machiewicz, Presider**

Track: [INOR] Division of Inorganic Chemistry

Division/Committee: [INOR] Division of Inorganic Chemistry

Monday

Introductory Remarks

06:00pm - 06:05pm USA - Mountain - April 5, 2021

Track: [INOR] Division of Inorganic Chemistry

Monday

Synthetic anionophores for transmembrane transport

06:05pm - 06:30pm USA - Mountain - April 5, 2021

Professor Philip A. Gale, Presenter

Track: [INOR] Division of Inorganic Chemistry

Monday

Anion recognition and hierarchical assembly

06:30pm - 06:55pm USA - Mountain - April 5, 2021

Amar Flood, Presenter

Track: [INOR] Division of Inorganic Chemistry

Monday

Probing and harnessing non-covalent interactions in water: From models hosts to proteins

06:55pm - 07:20pm USA - Mountain - April 5, 2021

Bruce Gibb, Presenter

Track: [INOR] Division of Inorganic Chemistry

Monday

Linking menaquinone location and conformation with interface associations

07:20pm - 07:30pm USA - Mountain - April 5, 2021

Margaret Braasch-Turi, Presenter | **Kaitlin Doucette** | **Debbie Crans**

Track: [INOR] Division of Inorganic Chemistry

Monday

Intermission

07:30pm - 07:45pm USA - Mountain - April 5, 2021

Track: [INOR] Division of Inorganic Chemistry

Monday

Recognition, sensing and transport of anions using peptides, peptidomimetics and related macrocycles

07:45pm - 08:10pm USA - Mountain - April 5, 2021

Katrina Jolliffe, Presenter

Track: [INOR] Division of Inorganic Chemistry

Monday

Anion-recognition directed supramolecular catalysis

08:10pm - 08:35pm USA - Mountain - April 5, 2021

Qiqiang Wang, Presenter

Track: [INOR] Division of Inorganic Chemistry

Monday

Macrocyclic-based ion pair receptors

08:35pm - 09:00pm USA - Mountain - April 5, 2021

Jonathan Sessler, Presenter

Track: [INOR] Division of Inorganic Chemistry

Monday

Bioinorganic Chemistry:

06:00pm - 09:00pm USA - Mountain - April 5, 2021

Dr Stephen A. Koch, Organizer | **Liliya Yatsunyk, Presider** | **Sonja Herres-Pawlis, Presider**

Track: [INOR] Division of Inorganic Chemistry

Division/Committee: [INOR] Division of Inorganic Chemistry

Monday

Peptide-functionalized polyoxometalates as antimicrobial agents

06:00pm - 06:20pm USA - Mountain - April 5, 2021

Elena Atrian-Blasco, Presenter | **Marcelo der Torrossian Torres** | **César de la**

Fuente | **Scott Mitchell**

Track: [INOR] Division of Inorganic Chemistry

Monday

Flavins as photoredox catalysts for the bioorthogonal activation of Pt(IV) anticancer prodrugs

06:20pm - 06:40pm USA - Mountain - April 5, 2021

Luca Salassa, Presenter

Track: [INOR] Division of Inorganic Chemistry

Monday

Guanidines strike back: Exceptional substrate diversity in oxygenation reactions catalyzed by Bis(μ -oxo) copper complex

06:40pm - 07:00pm USA - Mountain - April 5, 2021

Sonja Herres-Pawlis, Presenter | **Melanie Paul** | **Alexander Hoffmann**

Track: [INOR] Division of Inorganic Chemistry

Monday

Synthesis and biological activity studies of mono/bis(spiro-bino-spiro)cyclotriphosphazene derivatives

07:00pm - 07:20pm USA - Mountain - April 5, 2021

RESIT CEMALOGLU, Presenter | **MELIS ÖZBÜK** | **NURAN ASMAFILIZ** | **ZEYNEL KILIÇ** | **BÜSRA NUR SEKER** | **LEYLA ACIK** | **TUNCER HOKELEK**

Track: [INOR] Division of Inorganic Chemistry

Monday

Nitrene transfer chemistry mediated via transition metal (M = Cu, Mn, Fe and Co) coordination reagents

07:20pm - 07:40pm USA - Mountain - April 5, 2021

Suraj Sahoo, Presenter

Track: [INOR] Division of Inorganic Chemistry

Monday

Precise distance measurements in DNA G-quadruplex dimers and sandwich complexes by pulsed dipolar EPR spectroscopy

07:40pm - 08:00pm USA - Mountain - April 5, 2021

Lukas Stratmann, Presenter | **Yury Kutin** | **Müge Kasanmascheff** | **Guido Clever**

Track: [INOR] Division of Inorganic Chemistry

Monday

Hydrogen evolution reaction with a bioinspired nickel complex: Experimental and theoretical studies

08:00pm - 08:20pm USA - Mountain - April 5, 2021

maylis orio, Presenter

Track: [INOR] Division of Inorganic Chemistry

Monday

Cisplatin ligand substitution by aminoacids: Structure and reactivity of isolated encounter complexes

08:20pm - 08:40pm USA - Mountain - April 5, 2021

Dr. Davide Corinti, Presenter | **Roberto Paciotti** | **Cecilia Coletti** | **Nazzareno**

Re | **Barbara Chiavarino** | **Maria Elisa Crestoni** | **Simonetta Fornarini**

Track: [INOR] Division of Inorganic Chemistry

Monday

Structure of non-canonical DNA from *Tetrahymena thermophila* alone and with N-methylmesoporphyrin ligand

08:40pm - 09:00pm USA - Mountain - April 5, 2021

Liliya Yatsunyk, Presenter | **Dana Beseiso** | **Sawyer McCarthy** | **Erin Chen**

Track: [INOR] Division of Inorganic Chemistry