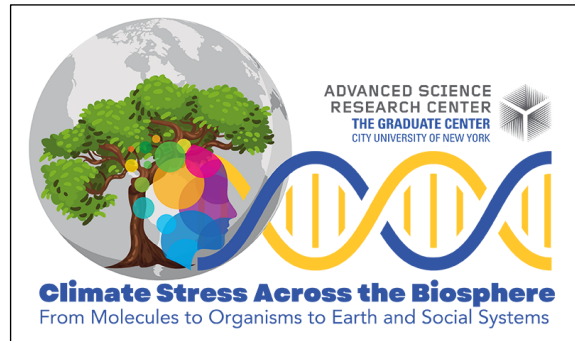


INTERDISCIPLINARY SCIENCE CONFERENCE

Climate Stress across the Biosphere:
From Molecules to Organisms
to Earth and Social Systems

*CUNY Advanced Science Research Center
85 Saint Nicholas Terrace
New York, NY 10031*



Thursday, 21 SEPTEMBER 2023

CUNY ASRC Auditorium

08:15am-08:45am Registration and light breakfast

OPENING SESSION

08:45am-09:00am Greetings
Goals and Structure of the Conference
Cross-cut Sessions; Synthesis Sessions
Defining Stress
Charles Vörösmarty, CUNY ASRC/CUNY Hunter College

CROSS-CUT #1: CLIMATE STRESS ON THE TROPHIC LEVELS

Moderator: Patrizia Casaccia, CUNY ASRC/CUNY Graduate Center (15-min talks)

09:00am-10:30am Topic: Stress at the Genomic Level
Christopher Mason, Weill Cornell Medicine/Biotia

Topic: Stress at the Proteomic Level
Kevin Gardner, CUNY ASRC/CUNY CCNY

Topic: Stress at the Fungi, Protists, Monera Levels
Jennifer Bhatnagar, Boston University

Topic: Stress at the Plant (and Plant-Fungi Interaction) Level
Andrew Reinmann, CUNY ASRC/CUNY Hunter College

Topic: Stress at the Invertebrate Level, e.g., Social Insects
Clint Penick, Auburn University

Topic: Stress at the Invertebrate Level, e.g., Corals
James Herlan, CUNY Graduate Center

10:30am-10:45am Break

10:45am-12:15pm Topic: Stress at the Vertebrate Level: Birds
Mark Hauber, CUNY ASRC

Topic: Stress at the Vertebrate Level: Fish
John Waldman, CUNY Queens College

Topic: Stress at the Human Level: Physiological and Psychological Health
Patrizia Casaccia, CUNY ASRC/CUNY Graduate Center

Topic: Stress at the Human Level: Birthing People and Their Infants
Heather Brumberg, NY Medical College and Westchester Medical Center

Topic: Stress at the Human Level: Neurodevelopment and Pregnancy
Yoko Nomura, CUNY Queens College

Topic: Stress at the Human Level: Heatwaves and Poor Air Quality
Ilias Kavouras, CUNY School of Public Health

12:15pm-12:30pm Synthesis #1: Multi-Kingdom
Monica Trujillo, CUNY Queensborough College

12:30pm-1:15pm Lunch

CROSS-CUT #2: CLIMATE STRESS ON ECOSYSTEMS

Moderator: Dianne Greenfield, CUNY ASRC/CUNY Queens College (15-min talks)

01:15pm-02:45pm Topic: Stress on Terrestrial Ecosystems: Soils
Theodore Muth, CUNY Brooklyn College

Topic: Stress on Terrestrial Ecosystems: Vegetation
Andrew Reinmann, CUNY ASRC/CUNY Hunter College

Topic: Stress on Wetlands
Chester Zarnoch, CUNY Baruch College

Topic: Stress on Aquatic Systems (Freshwater and Ocean)

Dianne Greenfield, CUNY ASRC/CUNY Queens College

Topic: Stress on the Built Environment: Urban Ecosystems

Peter Marcotullio, CUNY Hunter College

Topic: Stress on the Built Environment: Environmental Justice

Perl Egendorf, Earth Matter

02:45pm-3:00pm

Synthesis #2: Ecosystems

Peter Groffman, CUNY ASRC/CUNY Brooklyn College

03:00pm-3:15pm

Break

CROSS-CUT #3: STRESS ACROSS THE PLANETARY DOMAIN: BIOGEOPHYSICS

Moderator: Anthony Cak, CUNY ASRC (15-min talks)

03:15-04:00pm

Topic: Climate-induced Biodiversity Loss

Ana Carnaval, CUNY CCNY

Topic: Climate Stress: System-wide Stress across the Arctic

Mark Serreze, University of Colorado-Boulder

Topic: Global Climate Tipping Points

David Armstrong McKay, University of Exeter/ Stockholm Resiliency Centre

04:00-04:15pm

Synthesis #3: Planetary Biogeophysics

Charles Vörösmarty, CUNY ASRC/CUNY Hunter College

CROSS-CUT #4: STRESS ACROSS SOCIAL SYSTEMS AND ITS POLICY IMPLICATIONS

Moderator: Kevin Gardner, CUNY ASRC/CUNY CCNY (15-min talks)

04:15-05:15pm

Topic: Global Tipping Points and the Economy

James Rising, University of Delaware

Topic: Water Stress and Conflict

Melissa McCracken, Tufts University

Topic: Geopolitical Stress

Ferenc Mislevitz, iASK Hungary

Topic: Building International Response to a Planet Under Stress

Johannes Cullman, U.N. General Assembly/WMO

05:15pm-05:30pm Synthesis #4: Social Systems and Policy
Bill Solecki, CUNY Hunter College

CLOSING SESSION

05:30pm-05:45pm Closing session
Key take-homes
Next steps
Charles Vörösmarty, CUNY ASRC/CUNY Hunter College

07:15pm Speakers' dinner (invite only)

Friday, 22 SEPTEMBER 2023

CUNY ASRC 5th Floor Data Visualization Room

09:00am-12:00pm Drafting of White Paper
All Invited

Zoom Meeting Information for Event

[https://gc-cuny-
edu.zoom.us/j/87861629470?pwd=MmxxSndsS3pmRmdjVEJaYWViMkI5Zz09](https://gc-cuny-edu.zoom.us/j/87861629470?pwd=MmxxSndsS3pmRmdjVEJaYWViMkI5Zz09)

Meeting ID: 878 6162 9470

Passcode: 654972