

Biocomplexity Institute Semi-Annual Research Meeting
Fall 2023, October 19 & 20

Day 1 AGENDA
(Recorded)

Date: Thursday, October 19, 2023

Time: 12:30 p.m. – 7:00 p.m.

Registration: 12:30 p.m. – 1:00 p.m.

Program: 1:00 p.m. – 6:00 p.m.

Reception: 6:00 p.m. – 7:00 p.m.

Format: Hybrid

Event Location: [Kimpton The Forum Hotel](#)

540 Massie Road, Charlottesville, VA 22903. 434-365-2590

Program Room: Grove Ballroom III (1st Floor)

Prefunction Location: *Grove III Prefunction, Level 1*

**Prefunction Grove III (far end-straight ahead).
Logistic Team Members will guide all guests.**



Light Refreshments, Registration

12:30 pm – 1:00 pm

Grove III Prefunction, Level 1

Please sign our guestbook and pick up your nametag.

DAY 1 AGENDA
(Recorded)

Grove Ballroom III, Level 1

1:00 pm – 1:10 pm

Welcome and Overview of the Day

[Lona Doyle](#), Academic Program Coordinator (MC)

Biocomplexity Institute, University of Virginia

Remarks, Introduction of Keynote

[Madhav Marathe](#), *Division Director of Network Systems Science and Advanced Computing (NSSAC)*

Distinguished Professor in Biocomplexity, Biocomplexity Institute

Professor of Computer Science, School of Engineering and Applied Science, University of Virginia

1:10 pm – 2:00 pm

Keynote Speaker: [Ken Ono](#)

STEM Advisor to the Provost, and Marvin Rosenblum Professor of Mathematics at the University of Virginia

Talk Title: My inspired journey through the web of mathematics

2:00 pm – 2:10 pm

Introduction Movie Clip 1: Simulation Science & the Understanding of Large Socio-Technical Systems

Lona Doyle

2:10 pm – 2:15 pm

Break

2:15 pm – 2:45 pm

Remarks by [Chris Barrett](#)

Executive Director

Distinguished Professor in Biocomplexity, Biocomplexity Institute

Professor of Computer Science, School of Engineering and Applied Science, University of Virginia

2:45 pm – 3:30 pm

Remarks by Special Guests

[Dr. Jim Bohland](#) (Zoom)

Professor Emeritus at Virginia Tech, Former Vice President and Executive Director, National Capital Region Operations

[Dr. Bruno Sobral](#)

Professor of Biostatistics & Informatics, Colorado School of Public Health, Professor of Microbiology, Colorado State University, and a core faculty member in the School of Global Environmental Sustainability at Colorado State University

[Dr. Reinhard Laubenbacher](#)

Professor, Department of Medicine, Division of Pulmonary, Critical Care, and Sleep Medicine, Director, Laboratory for Systems Medicine, University of Florida

[Dr. Gabriel Istrate](#) (Zoom)

Professor, Faculty of Mathematics and Computer Science, University of Bucharest

[Dr. Dirk Helbing](#) (Zoom)

Professor of Computational Social Science, Department of Humanities, Social and Political Sciences at ETH Zurich, an affiliate of the Computer Science Department, and member of the Complexity Science Hub Vienna

3:30 pm – 4:00 pm

Remarks by Biocomplexity Institute Leadership:

[Stephen Eubank](#), *Professor, Biocomplexity Institute, Professor of Public Health Sciences, School of Medicine, University of Virginia.*

[Stephanie Shipp](#), *Acting Division Director, Social and Decision Analytics (SDAD) Research Professor, Biocomplexity Institute, University of Virginia*

[Christian Reidys](#), *Division Director, Mathematical Biocomplexity, Biocomplexity Institute Professor of Mathematics, College of Arts and Sciences, University of Virginia*

[Madhav Marathe](#), *Division Director, Network Systems Science and Advanced Computing (NSSAC) Distinguished Professor in Biocomplexity, Biocomplexity Institute Professor of Computer Science, School of Engineering and Applied Science*

4:00 pm – 4:15 pm

Break

Grove III Prefunction, Level 1

4:15 pm – 4:30 pm

Welcome Back/Introduce Movie Clip 2: TRANSIMS

Lona Doyle

4:30 pm – 5:00 pm

Remarks by Chris Barrett

5:00 pm – 5:45 pm

Remarks by Special Guests

[Dr. Irene Eckstrand](#)

Consultant on Training and Research Programs, Former Program Officer, National Institute of General Medical Sciences, NIH

[Dr. Richard Beckman](#) (Zoom)

Former group leader, statistics group, Los Alamos National Laboratory

[Dr. Craig Benson](#) (Zoom)

Wisconsin Distinguished Professor Emeritus, University of Wisconsin-Madison

Dean of Engineering Emeritus, University of Virginia

Professor Emeritus, Civil and Environmental Engineering, School of Engineering and Applied Science, University of Virginia

[Dr. Keith Bissett](#) (Zoom)

Senior Software Engineer at Apple

[Dr. Bryan Lewis](#)

Research Associate Professor, Biocomplexity Institute, University of Virginia

[Dr. Achla Marathe](#)

Professor, Biocomplexity Institute, Professor of Public Health Sciences, School of Medicine, University of Virginia

[Dr. Henning Mortveit](#)

Associate Professor, Biocomplexity Institute, Associate Professor of Engineering Systems and Environment, School of Engineering and Applied Science, University of Virginia

[Dr. Anil Vullikanti](#)

Professor, Biocomplexity Institute, Professor of Computer Science, School of Engineering and Applied Science, University of Virginia

5:45 pm – 6:00 pm

Closing Remarks
Madhav Marathe/Chris Barrett

6:00 pm – 7:00 pm

Reception
Terrace
Grove III Prefunction, Level 1 (if bad weather)

Day 2 AGENDA

(Recorded)

TCIV Conference Room, 1st Floor

Date: Friday, October 20, 2023

Time: 9:30 a.m. – 3:00 p.m.

Format: In-Person

Location: [NorthFork-UVA Discovery Park](#),
994 Research Park Blvd./TCIV, First Floor Conference Room.

9:30 am – 10:00 am

Registration, Light Refreshments
Please pick up your nametags. We will also give you your table number for group discussions to be held after lunch.

10:00 am – 10:05 am

Welcome
Lona Doyle

10:05 am – 10:30 am

Remarks by Chris Barrett
Chris Barrett

10:30 am -11:00 am

Future Thematic Lines
[Stephanie Shipp](#), *Acting Division Director, Social and Decision Analytics (SDAD)*
Research Professor, Biocomplexity Institute, University of Virginia
[Christian Reidys](#), *Division Director, Mathematical Biocomplexity, Biocomplexity Institute*
Professor of Mathematics, College of Arts and Sciences, University of Virginia
[Madhav Marathe](#), *Division Director, Network Systems Science and Advanced Computing (NSSAC)*
Distinguished Professor in Biocomplexity, Biocomplexity Institute
Professor of Computer Science, School of Engineering and Applied Science

11:00 am – 12:00 pm (includes Q&A)

Keynote Speaker: [Andrés Clarens](#)
Professor, Civil and Environmental Engineering and Associate Director, UVA Environmental Institute, University of Virginia

Talk Title: The Biocomplexity of Deep Decarbonization.

12:00 pm – 1:00 pm

Lunch (Buffet Style)

1:00 pm – 2:00 pm

Facilitated Small Group Discussions

(5 min) Explanation of the session from the program committee

(55 min) 10 tables discussing 5 topics (2 tables per topic)

2:00 pm – 2:15 pm

Coffee Break

2:15 pm – 2:45 pm

Discussion Summaries

Facilitators/Postdocs Summarize Findings

2:45 pm – 3:00 pm

Closing Remarks

Lona Doyle