Location:

During week one, morning and afternoon sessions will take place in Studio 1 of the Granoff Center for the Creative Arts, located on the fourth floor at 154 Angel Street.

During week two, all sessions will take place in the Barus and Holley Engineering building at 184 Hope Street. Sessions in the morning will be held in room 190 on the first floor and sessions in the afternoon will occur in the Design Workshop of Prince Laboratory.

Meals:

Breakfast is at Verney Woolley Dining Hall (135 Cushing Street in Emery-Woolley Hall) from 7:30-8:45 AM

Monday-Friday Lunch is at the Faculty Club (One Magee Street) from 12:45-2:00 PM
Saturday-Sunday Lunch is at Verney Woolley Dining Hall 11:00 AM–2:45PM

Coffee breaks will take place every day, once in the morning and once in the afternoon.

Dinner is at a selection of local restaurants and Verney Woolley Dining Hall. Please refer to your Dine Around Booklet for more information.

Saturday, June 7
Arrival Day - Participants will arrive at 111 Thayer Street, Brown University, Providence, Rhode Island.
Lunch provided at Watson Institute or Verney Woolley, Dinner at local restaurants.

Sunday, June 8
4-5pm & 5-6pm: Tours of Brown University, departing from the Watson Institute Lobby
6pm: Barbeque and Field Day, come eat dinner and meet your fellow BIARI participants at Pembroke Field (at the intersection of Brook St and Hope St)

1 Wednesday the June 18th is an exception. Morning sessions will be held at the Save the Bay Center in Cranston, RI and Afternoon sessions will occur at NBC’s Fields Point Facility
Day 1 (June 9): C&F: Introduction to the Engineering BIARI
7:30-8:45 am: Breakfast, Verney-Woolley Dining Hall
9-10:30 am: “Welcome to Connections and Flows”
Geri Augusto, ED, Visiting Associate Professor, African Studies, Faculty Affiliate, Science & Society and Portuguese & Brazilian Studies, Brown University;
Christopher Bull, PhD, Senior Research Engineer, Senior Lecturer, School of Engineering, Brown University
Studio 1, Granoff
10:30-11am: Coffee Break, Watson Institute Lobby
11-12:30 pm: “Thinking Broadly about Techno-Social Problems,” Keith Brown, PhD, Professor, Watson Institute for International Studies, Director, Brown International Advanced Research Institutes, Brown University
Studio 1, Granoff
12:45-1:45 pm: Lunch, Faculty Club
2:00-3:00 pm: Participant Introductions Part I
Studio 1, Granoff
3-3:30 pm: Coffee Break, Watson Institute Lobby
3:30-4:00 pm: Participant Introductions Part II
Studio 1, Granoff

Day 2 (June 10): Waterplexity
7:30-8:45 am: Breakfast, Verney-Woolley Dining Hall
9-10:00 am: “Actionable Water Knowledge for Engineering,” Shafiqul Islam, ScD, Professor, Department of Civil and Environmental Engineering, Professor, Water Diplomacy, Fletcher School of Law and Diplomacy, Tufts University
Studio 1, Granoff
10:10-11:10am: “Water and Sanitation as Human Rights,” Sharmila Murthy, JD, Assistant Professor, School of Law, Suffolk University
Studio 1, Granoff
11:10-11:30am: Coffee Break, Watson Institute Lobby
11-12:30 pm: Interactive Session – Shafiqul Islam, Sharmila Murthy
Studio 1, Granoff
12:45-1:45 pm: **Lunch – Keyword Tables, Faculty Club:** At lunch today please sit at a table with a keyword most relevant to your work.

2-3:15 pm: **Dilemma Discussion #1 (Groups A-E)**
*Granoff*

3:15-3:45 pm: Coffee Break, *Watson Institute Lobby*

3:45-5 pm: **Dilemma Discussion #1 (Groups A-E)**
*Granoff*

5-6pm **Introduction to Brown University Library Resources,** Ian Straughn
*Carmichael Auditorium, BERT, 89 Waterman St.*

**Day 3 (June 11): Energy Rivals**

7:30-8:45 am: Breakfast, *Verney-Woolley Dining Hall*

9-10:30 am: *“Fossil Fuels and the Energy Mix in the Global South,”* Nelson Narciso Filho, President and Founding Partner, NNF Energy Consultancy, former Director, National Agency of Petroleum, Natural Gas and Biofuels, Brazil
*Studio 1, Granoff*

10:30-11 am: Coffee Break, *Watson Institute Lobby*

11-12:30 pm: *“Off-Grid Production and Household Energy Security,”* Chris Bull, PhD, Senior Research Engineer and Senior Lecturer, School of Engineering, Brown University
*C&F Convener*
*Studio 1, Granoff*

12:45-1:45 pm: Lunch, *Faculty Club*

2-3:15 pm: **Dilemma Discussion #2**
*Granoff*

3:15-3:45 pm: Coffee Break, *Watson Institute Lobby*

3:45-5 pm: **Dilemma Discussion #2**
*Granoff*

5:30-7:30 pm: Keynote Address, Ambassador Nirupama Rao
*Granoff Auditorium, 154 Angell Street*  
*Reception to follow*

**Day 4 (June 12): Ethical Engineering**

7:30-8:45 am: Breakfast, *Verney-Woolley Dining Hall*

9-10:30 am: *“Tradition and Morality in the Age of Biotechnology”* Rosalyn Berne, PhD, Associate Professor, Department of Science, Technology and Society, University of Virginia
**Day 5 (June 13): Doing it Digitally: Engineering Sustainable Futures**

7:30-8:45 am: Breakfast, Verney-Woolley Dining Hall

9-10:30 am: **“Creating Solutions through Crowdsourcing,”** Angela Oduor, Developer, Ushahidi Inc.  
*Studio 1, Granoff*

10:30-11 am: Coffee Break, Watson Institute Lobby

11-12 pm: Continued Discussions  
*Studio 1, Granoff*

12-12:30 pm: **BIARI Central:** Exploring Google  
*Studio 1, Granoff*

12:45-1:45 pm: Lunch, Faculty Club

2-3:15 pm: **Group Dilemma Presentations: 1-3**  
*Studio 1, Granoff*

3:15-3:45 pm: Coffee Break, Watson Institute Lobby

3:45-5 pm: **Group Dilemma Presentations: 1-3**  
*Studio 1, Granoff*

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**Day 7 and 8 (June 14 and 15): Open weekend, see BIARI Programming for Information on Activities and Suggestions**
Day 6 (June 16): Which Goals? Whose Development?
7:30-8:45 am: Breakfast, Verney-Woolley Dining Hall

9-10:30 am: “A Framework for Classifying Innovation for Development,” Garrick E. Louis, PhD, Associate Professor, Department of Systems and Information Engineering, University of Virginia
Rm 190, Barus & Holley

10:30-11 am: Coffee Break, Watson Institute Lobby

11-12:30 pm: Interactive Session – Garrick Louis

12:45-1:45 pm: Lunch, Faculty Club

2-3:15 pm: Dilemma Discussion #4
Prince Labs

3:15-3:45 pm: Coffee Break, Watson Institute Lobby

3:45-5 pm: Dilemma Discussion #4
Prince Labs

Day 7 (June 17): Uses of Energy: Looking Back, Looking Forward
7:30-8:45 am: Breakfast, Verney-Woolley Dining Hall

9-10:30 am: “Energy and Water in Agriculture,” Stephen G. Agong, PhD, Principal, Jaramogi Oginga Ondiga University of Science and Technology
Rm 190, Barus & Holley

10:30-11 am: Coffee Break, Watson Institute Lobby

11-12:30 pm: “Developing the Grid,” Philip Schewe, PhD, Author, The Grid (2007), Director of Communication, Joint Quantum Institute
Rm 190, Barus & Holley

12:45-1:45 pm: Lunch, Faculty Club

2-3:30 pm: BIARI Beyond Brown: Tools and Techniques for Collaboration
Location TBD

3:15-3:45 pm: Coffee Break, Watson Institute Lobby

3:45-6:15 pm: Dilemma Discussion #5
Prince Labs

Note: Session this day will run 75 minutes later than usual
Day 8 (June 18): Cleaning Up the Waters
7:30-8:45 am: Breakfast, Verney-Woolley Dining Hall
9:00 am: Bus Departs from the Watson Institute for the Save the Bay Center
9:30-10:30 am: “Building Political Support for Investments in Clean Water,” Jonathan Stone, CFA, Executive Director, Save the Bay, Inc. Save the Bay Center
10:30-11 am: Coffee Break
11-12:30 pm: “Groundwater: Contamination and Filtration,” Tom Boving, PhD, Professor, Department of Civil and Environmental Engineering, University of Rhode Island Save the Bay Center
12:45-1:30 pm: Lunch
1:45 pm: Bus Departs from the Save the Bay Center for the Field’s Point Wastewater Facility
2-3:30 pm: “Upper Narragansett Bay Water Quality – Sins of the Past, Present Day Efforts & Future Opportunities,” Thomas Uva, Director of Planning, Policy, and Regulation, Narragansett Bay Commission Fields Point Wastewater Facility
3:30-3:45 pm: Break
3:45-5 pm: Study Tour: Field’s Point Wastewater Treatment Facility
Note: Sessions all day will occur off campus. Long pants and close-toed shoes must be worn for the Study Tour

Day 9 (June 19): Coordinates
7:30-8:45 am: Breakfast, Verney-Woolley Dining Hall
9-10:30 am: “GIS and Unique Solutions” Rachel Franklin, PhD, Assistant Professor, Population Studies and Training Center, Brown University Rm 190, Barus & Holley
10:30-11 am: Coffee Break, Watson Institute Lobby
11-12:30 pm: “Studio South Zero: Looking at Urban Ecological Aesthetics,” Torkwase Dyson, MFA, Artist, Studio South Zero Rm 190, Barus & Holley
12:45-1:45 pm: Lunch, Faculty Club
2-3:45 pm: Group Dilemma Presentations: 4-5 Rm 190, Barus & Holley
4:00 pm: Depart on buses for New England Clambake East Greenwich, Rhode Island
**Day 10 (June 20): Final Conversations**

7:30-8:45 am: Breakfast, *Verney-Woolley Dining Hall*

9-10:30 am: TBD

10:30-11 am: Coffee Break, *Watson Institute Lobby*

11-12:30 pm: TBD

12:45-2 pm: Lunch, *Faculty Club*

2:30-3:15 pm: Farewell Address and Presentation of Certificates

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**Saturday, June 21: Departure Day**

Breakfast and lunch will be served at Verney-Woolley. We will post the Departure day shuttle schedules for both Providence TF Green Airport and Boston Logan Airports on Monday, June 16th.