Sessions (two full days):

**Day 1**

8:00-8:30  Light snacks and coffee

8:30-8:45  Opening remarks:

8:30-8:35  George J. Christ, Ph.D.
Professor of Biomedical Engineering and Orthopaedic Surgery
Commonwealth Professor of Biomedical Engineering
Co-Director, Center for Advanced Biomanufacturing

8:35-8:40  Jennifer L. West, Ph.D., NAE
Professor of Biomedical Engineering
Saunders Family Professor of Engineering
Dean, School of Engineering and Applied Science

8:40-8:45  Shayn Peirce-Cottler, Ph.D.
Professor and Chair of Biomedical Engineering
Harrison Distinguished Teaching Professor
Session 1: Bioentrepreneur Bootcamp 2.0: Lessons Learned from Commercialization Successes and Failures
Michael Francis and Luke Burnett, Co-Chairs

8:45-9:00 Luke Burnett, Ph.D.
CSO and CEO, KeraNetics

9:00-9:15 Alyce Jones, Ph.D.
Vice President, Global Regulatory and Clinical Affairs at LifeNet Health

9:15-9:30 Elliot McAllister
CEO/CTO, Skyphos Industries Inc.

9:30-9:45 Jed Johnson, Ph.D.
Co-Founder, CTO, Nanofiber Solutions

9:45-10:15 Panel discussion
Rob Gourdie, Ph.D., Panelist
Professor and Director, Center for Vascular and Heart Research at Virginia Tech
Commonwealth Research Commercialization Fund Eminent Scholar

10:15-10:30 Break

Session 2: What is the Bioeconomy?
Michael Orrico and Richard McFarland, Co-Chairs

10:30-10:45 Mike Orrico
Managing Director, BioFab Startup Lab

10:45-11:00 Richard Chylla, Ph.D.
Executive Director, UVA Licensing and Ventures Group

11:00-11:15 Richard McFarland, Ph.D., M.D.
Chief Regulatory Officer, ARMI/BioFabUSA

11:15-11:30 Scott Hollenbeck, M.D., F.A.C.S.
Professor and Chair, Department of Plastic and Maxillofacial Surgery Chair, UVA

11:30-11:45 Michael Francis, Ph.D.

11:45-noon Panel discussion

Noon-1:00 Lunch

1:00-2:00 Keynote address
Arnold Caplan, Ph.D.
Professor of Biology and Director of the Skeletal Research Center, Case Western Reserve University School of Medicine

2:00-2:15  Break

2:15-3:45  **Session 3: Frontiers in Design of Biomaterials for Organ and Tissue Biomanufacturing**  
*Warren Grayson* and *Gulden Camci-Unal*, Co-Chairs

2:15- 2:30  *Warren Grayson, Ph.D.*  
Professor of Biomedical Engineering, JHU  
Director, Laboratory for Craniofacial and Orthopaedic Tissue Engineering

2:30-2:45  *Gulden Camci-Unal, Ph.D.*  
Associate Professor of Chemical Engineering, Center for Pathogen Research and Training, UMass-Lowell

2:45-3:00  *Abby Whittington, Ph.D.*  
Associate Professor, Chemical Engineering, Virginia Tech

3:00-3:15  *Chris Highley, Ph.D.*  
Assistant Professor of Biomedical and Chemical Engineering, University of Virginia

3:15-3:45  Panel discussion

3:45-4:00  Break

4:00-5:30  **Session 4: Clinical Applications of Biomaterials for Organ and Tissue Repair**  
*Reggie Stilwell* and *Mohammad Albanna*, Co-Chairs

4:00-4:15  *Reginald Stilwell*  
Director, AlloSource Innovation Center (AIC)

4:15-4:30  *Shyni Varghese, Ph.D.*  
Professor of Biomedical Engineering, Mechanical Engineering and Materials Science, and Orthopaedic Surgery, Duke University

4:30-4:45  *Mohammad Albanna, Ph.D.*  
Founder and CEO, Humanbiologics

4:45-5:00  *Jae-Won Shin, Ph.D.*  
Associate Professor of Pharmacology and Bioengineering, University of Illinois at Chicago

5:30-  Social
**Day 2**

8-8:30  Light snacks and coffee

8:30-10  **Session 5: Cell Sources for Tissue Engineering and Regenerative Medicine**
         **Arnold Caplan** and **Karen Hirschi**, Co-Chairs

8:30-8:45  **Karen Hirschi, Ph.D.**
         Alumni Endowed Professor of Cell Biology, UVA

8:45-9:00  **Hank Donahue, Ph.D.**
         Eminent Scholar and Alice T. and William H. Goodwin, Jr. Endowed Professor and Chair, Department of Biomedical Engineering, Virginia Commonwealth University

9:00-9:15  **James Clinton, Ph.D.**
         Lead Scientist, ATCC

9:15-9:30  **Ross Marklein, Ph.D.**
         Assistant Professor, School of Chemical, Materials, and Biomedical Engineering, University of Georgia

9:30-10:00  Panel discussion

10:00-10:15  Break

10:15-11:45  **Session 6: Biofabrication of Tissues and Organs**
             **Kimberlee Potter** and **Vincent Ho**, Co-Chairs

10:15-10:25  **Kimberlee Potter, Ph.D.**
             Scientific Portfolio Manager for Surgery, Trauma, and Restorative Medicine Office of Research and Development, Department of Veterans Affairs

10:25-10:35  **Malaney Morris, Ph.D.**
             Lead Field Scientist-NASA, CELLINK

10:35-10:45  **Vincent Ho, M.D., M.B.A.**
             Chair and Professor, Department of Radiology and Radiological Sciences and Director, 4D Bio3 Center for Biotechnology Uniformed Services University of the Health Sciences, Director of Research, Department of Radiology, Walter Reed National Military Medical Center

10:45-11:55  **Rohan Shirwaiker, Ph.D.**
             Professor and Joe Pleasant Faculty Scholar, Department of Industrial and Systems Engineering and Associate Director, Comparative Medicine Institute at North Carolina State University

11:55-12:05  **Greta Babakhanova, Ph.D.** (virtual)
             Physicist, Biosystems & Biomaterials Division, National Institute of Standards and Technology
12:05-12:30  Panel discussion

Kristin H. Gilchrist, Ph.D.  (Panelist)
Associate Director of Research, 4D Bio3 Center for Biotechnology
Uniformed Services University of the Health Sciences

12:30-1:00  Lunch

1:00-1:15  Art Lichtenberger: Overview of UVA IFAB Facility
Research Professor, Electrical and Computer Engineering
University of Virginia

1:15-3:00  Session 7: Developing a Biomanufacturing Workforce
Chair: Shayn Peirce-Cottler

1:15-1:30  Spencer Marsh, Ph.D.
Chief Scientific Officer
The Tiny Cargo Company
spencer@tinycargo.com

1:30-1:45  Clif Ray, Ph.D.
AAAS Fellow, NIST

1:45-2:00  Jonathan Turner, Ph.D.
Applications Scientist, LumaCyte

2:00-2:15  Evan Buettmann
VCU Postdoctoral Fellow in Hank Donahue’s research group

2:15-2:30  Nicholas Chartrain, Ph.D.
Research Scientist, 4D Bio3 Center for Biotechnology
Uniformed Services University

2:30-2:45  Remington Martinez
UVA B.S. in biomedical engineering, 2023, in Chris Highley’s research group

2:45-3:00  Panel Q&A with all speakers from Session 7

3:00-3:15  Closing remarks