A Symposium Honoring

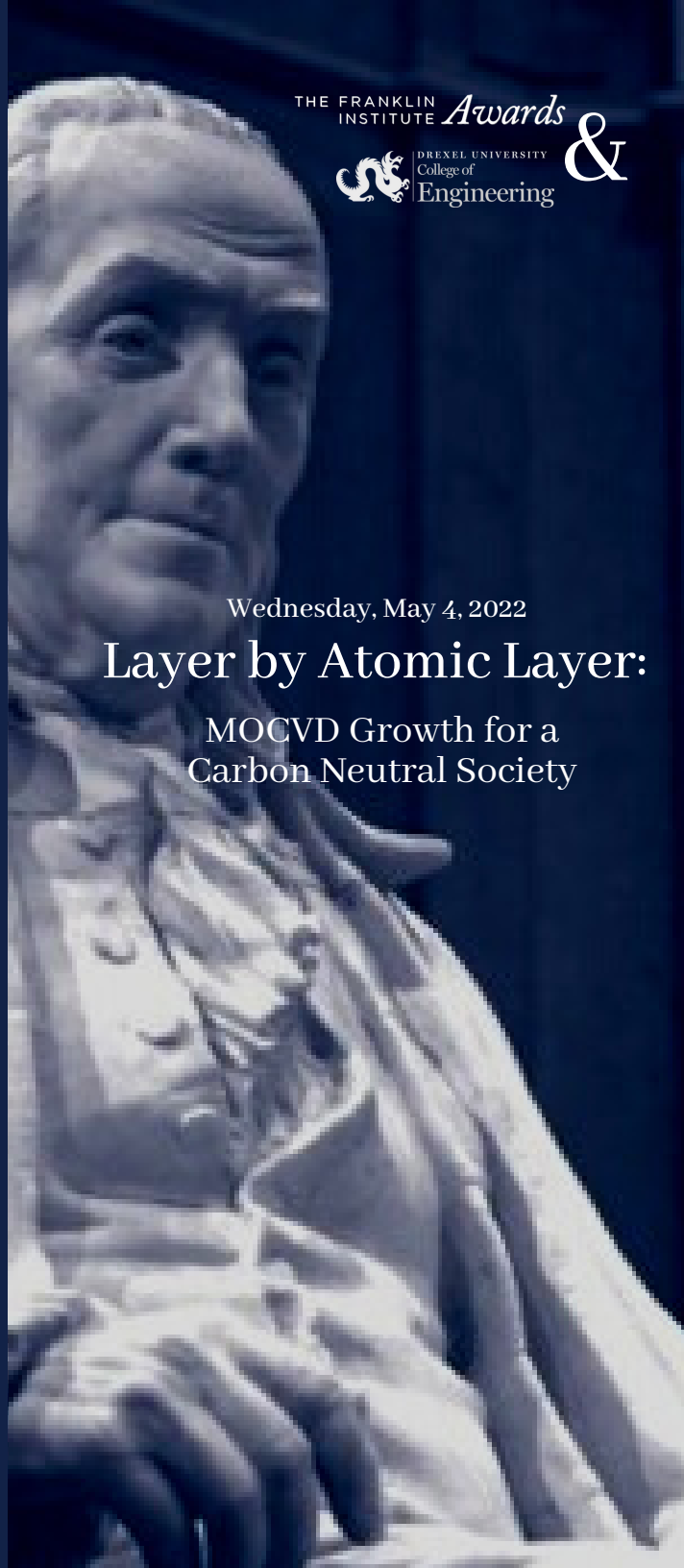
Russell D. Dupuis. Ph.D. and P. Daniel Dapkus, Ph.D.

Recipients of the 2022 Benjamin Franklin Medal in Electrical Engineering

09:00	Introduction & Welcome Prof. Bahram Nabet, Drexel University
09:05	Welcome Remarks. Dr. Darryl Williams Sr. Vice President, Science & Education The Franklin Institute
09:10	Franklin Awards History (video)
09:15	Welcome Remarks* President John Fry, Drexel University
09:20	Prof. Hiroshi Amano* Nagoya University, Japan
09:50	Prof. Chennupati Jagadish* Australian National University Canberra, Australia
10:20	Prof. Dieter Bimberg Technical University of Berlin, Germany
	-----Intermission-----
11:00	Prof. James Coleman* University of Texas at Arlington, TX University of Illinois, Urbana, IL
11:30	Prof. Shuji Nakamura University of California Santa Barbara, CA.
12:00	Prof. Dan Dapkus University of Southern California, Los Angeles, CA
12:30	Prof. Russell Dupuis Georgia Institute of Technology, Atlanta, GA USA
13:00	Conclusion, Prof. Bahram Nabet

**previously recorded*

Drexel University
Bossone Research Center
Mitchell Auditorium
3140 Market St.
Philadelphia, PA



THE FRANKLIN INSTITUTE *Awards* &

DREXEL UNIVERSITY College of Engineering

Wednesday, May 4, 2022

Layer by Atomic Layer:

MOCVD Growth for a Carbon Neutral Society

Speakers

Hiroshi Amano, Ph.D.

Nobel Prize in Physics
Director, Akasaki Research Center, Department of Electrical Engineering and Computer Science
Nagoya University, Japan

Title: "The MOCVD as the key technology for establishing a carbon neutral society."

Chennupati Jagadish, Ph.D.

AC, MNAE (US), FAA, FTSE, FTWAS, FNAI, FNA, FNAE, FASc, FAPAS, FEurASc, FNAS
Distinguished Professor and Head of Semiconductor Optoelectronics and Nanotechnology Group,
Research School of Physics
Australian National Univer, Canberra, Australia
President-elect, Australian Academy of Science

Title: "Semiconductor Nanostructures for Optoelectronics Applications."

Dieter Bimberg, Ph.D.

Technical University of Berlin, Germany
CIOMP of Chinese Academy of Sciences
Member of Germany Academy of Sciences and American Academies of Engineering and Inventors

Title: "Quantum Dots for Green Quantum Technologies."

James Coleman, Ph.D.

Presidential Distinguished Prof. of Photonics, University of Texas at Arlington, TX
Intel Alumni Endowed Chair Emeritus, University of Illinois, Urbana, IL USA

Title: "The MOCVD Growth of Diode Lasers in Context--A Significant Challenge and an Elegant Solution."

Shuji Nakamura, Ph.D.

Nobel Prize in Physics, NAE, NAI, NIHF, RAE
CREE Distinguished Professor
University of California Santa Barbara, CA.

Title: "The importance of the MOCVD growth to the invention of the blue LED and solid-state light revolution."

P. Daniel Dapkus, Ph.D.

Emeritus Distinguished Professor of Electrical Engineering, Material Science and Physics
University of Southern California,
Los Angeles, CA USA

Title: "Metalorganic Chemical Vapor Deposition--The Dominant Technology for Compound Semiconductor Devices."

Russell D. Dupuis, Ph.D.

Steve W. Chaddick Endowed Chair in Electro-optics, Georgia Institute of Technology,
Atlanta, GA USA

Title: "Metalorganic Chemical Vapor Deposition--The Swiss Army Knife of III-V Epitaxy."