

# LISA DHAR

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## EXPERIENCE

2023 - PRESENT

### ASSOCIATE VICE PRESIDENT FOR INNOVATION AND NEW VENTURES

#### NORTHWESTERN UNIVERSITY

##### Leds Northwestern's Innovation and New Ventures

- Directs the organization that includes (i) the technology transfer operations of the University which move innovations from Northwestern research out into the world, (ii) the Querrey InQbation Lab, Northwestern's incubator for research-based startups, and (iii) The Garage, Northwestern's hub for student entrepreneurship.
- My teams collaborate across the University to build, protect, market, and license the University's intellectual property (IP) portfolio, enable new research-based startups, and enrich the student entrepreneurial experience.

2022 - PRESENT

### INTERIM EXECUTIVE DIRECTOR

#### QUERREY INQBATION LAB, NORTHWESTERN UNIVERSITY

##### Led Northwestern's newly launched hub for research-based entrepreneurship.

- Lead author of a \$3M awarded proposal to the Illinois Department of Commerce and Economic Opportunity (DCEO). The DCEO award, University matching funds, an additional commitment from the State of Illinois, and a generous \$25M gift established the Querrey InQbation Lab.
- Collaborated with the University's facilities management and external architectural teams to design and launch the first phase of the Lab's space – 15,000 ft<sup>2</sup> of coworking, office, and dry & wet labs to house startups and entrepreneurial programming.
- Led a team and worked across the University to design and implement new programming such as Entrepreneurial Fellows for recent PhDs and MBAs, FoundHer Fellows for women faculty founders, Embedded Residencies for MBA students, Mentor Network, Summer Scholars program for undergraduate students, Tech Talks for high school students, 2.0 Conferences, and new training series and bootcamps.
- Managed the InQbation Lab staff to support operational needs of resident startups.

2018-2022

### MEMBER OF BOARD OF DIRECTORS

#### ALCAMI CORPORATION, A MADISON DEARBORN PORTFOLIO COMPANY

Served as a member of the company's Board of Directors from the time of Madison Dearborn's acquisition until acquisition by Global Healthcare Opportunities and The Vistria Group.

2016-2022

**DIRECTOR OF NEW BUSINESS VENTURES FOR ENGINEERING**

**INNOVATION AND NEW VENTURES OFFICE (INVO), NORTHWESTERN UNIVERSITY**

**Led the New Ventures Team (NVT) within INVO. NVT manages resources for startups launched from Northwestern research such as the \$10M N.XT gap fund, entrepreneurial training programs, partnering and networking events, showcases, and coaching for external competitions and opportunities.**

- Established INVOHub, the first centralized startup resource for the University for space, financial support, and entrepreneurial tools.
- Launched new technology and startup showcases to highlight Northwestern and regional strengths, including San Francisco events, coinciding with the JP Morgan Healthcare Conference, and Illinois Ignite, a collaboration with the major research universities within the state, World Business Chicago, and the Illinois Science & Technology Coalition. Transitioned showcases to virtual formats during pandemic.
- As a member of core team, helped recruit Deerfield Management to launch \$65M Lakeside Discovery at Northwestern.

**Re-designed and served as lead instructor for McCormick School of Engineering undergraduate course, “Engineering Entrepreneurship”; Co-instructor for Kellogg School of Management MBA course, “Commercializing Innovations”**

2009-2016

**OFFICE OF TECHNOLOGY MANAGEMENT, UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN**

**SENIOR ASSOCIATE DIRECTOR (2014-2016)**

**ASSOCIATE DIRECTOR & SENIOR TECHNOLOGY MANAGER, LIFE SCIENCES (2013-2014)**

**ASSISTANT DIRECTOR & SENIOR TECHNOLOGY MANAGER, LIFE SCIENCES (2012-2013)**

**SENIOR TECHNOLOGY MANAGER, LIFE SCIENCES (2009-2012)**

**Provided strategic guidance for (i) the University’s intellectual property (IP) portfolio, (ii) licensing policies, (iii) relationships with faculty inventors, (iv) entrepreneurial resources and campus initiatives, and (vi) partnerships.**

- Directly managed the office’s patent team consisting of patent agents and patent administrators and managed the office’s activities in the life sciences.
- Managed IP portfolios in bioengineering, chemistry, chemical engineering, and materials science. Marketed technologies and negotiated IP licenses. Startup licenses included REVOLUTION Medicines, Voxel8, Electroniks, and Vanquish Oncology, among others.
- Launched and directed the University’s technology showcases known as *Share the Vision*. The showcases, which continue, bring in venture and angel investors and corporate representatives from across the country. Showcases have been held on campus and, in conjunction with the University of Illinois Foundation, in Silicon Valley.

2000-2009

**CO-FOUNDER AND VICE PRESIDENT, MEDIA DEVELOPMENT**

**INPHASE TECHNOLOGIES**

**Co-founded InPhase Technologies, a Bell Labs, Lucent Technologies startup, which raised >\$90M total funding.**

- As a member of the senior management team, led a team of chemical engineers, chemists, and optical engineers to commercialize high performance recording media for holographic data storage.
- Technical achievements were recognized with a Best in Show (National Association of Broadcasters, 2008), President's Award for Emerging Technologies (RadTech, 2006), and 2002 R&D 100 Award.
- Recording media and test equipment were sold to >20 companies including Sony, Daewoo, and NTT.
- Negotiated & led joint development programs with Imation, Hitachi-Maxell, and Bayer MaterialScience. Programs resulted in pilot manufacturing lines at Hitachi-Maxell and Bayer MaterialScience.
- Awarded Grants
  - \$2M, Advanced Technology Program (sole author and principal investigator)
  - \$900K (3 grants), National Geo-Spatial Agency (co-author and principal investigator)
  - \$650K (Phase I, Phase Ib, and Phase II), NSF/SBIR program (co-author and principal investigator)

1994-2000

**BELL LABORATORIES, LUCENT TECHNOLOGIES**

**MEMBER OF TECHNICAL STAFF (1996-2000)**

**POST-DOCTORAL FELLOW (1994-1996)**

**Led the team that developed new classes of polymer recording media for holographic storage.**

- Technical breakthroughs led Lucent to launch the startup, InPhase Technologies, to commercialize holographic storage. (Member of the core team that pitched the technology and business opportunities to land \$14M Series A funding from Signal Lake Ventures, Madison Dearborn Partners, Newton Technology Partners, and Imation Corporation.)
- Work was featured in the *New York Times*, *Forbes ASAP*, *Wired*, *Data Storage Magazine*, the *Philadelphia Inquirer*, *MIT's Technology Review*, the *New Jersey Star Ledger* and many other media outlets

**EDUCATION**

1994

**PHD, PHYSICAL CHEMISTRY, Massachusetts Institute of Technology**

1989

**BS, CHEMISTRY WITH HONORS, STUDENT MARSHAL, University of Chicago**

## **TECHNICAL/COMMUNITY SERVICE**

Board of Directors for Countryside School (2009-2015)  
Board of Directors for Montessori School of Champaign Urbana (2007-2009)  
National Academies' Assessment Panel on Materials Science and Engineering at NIST (2006-2009)  
Advisory Board for University of Colorado's Women in Engineering (2005-2008)

## **AWARDED PATENTS**

7,112,359	Method and apparatus for multilayer optical articles
7,001,541	Method for forming multiply patterned optical articles
6,939,648	Optical article and process for forming article
6,765,061	Environmentally durable, self-sealing optical articles
6,650,447	Holographic storage medium having enhanced temperature operating range and method of manufacturing the same
6,482,551	Optical article and process for forming article
6,348,983	Holographic storage medium having enhanced temperature operating range and method of manufacturing the same
6,221,536	Material exhibiting compensation for polymerization-induced shrinkage and recording medium formed therefrom
6,124,076	Material exhibiting compensation for polymerization-induced shrinkage and recording medium formed therefrom
6,103,454	Recording medium and process for forming medium
5,672,830	Measuring anisotropic mechanical properties of thin films

## **PUBLICATIONS**

### **Book**

K. Curtis, L. Dhar, A. Hill, W. Wilson, and M. Ayres, ed. Holographic Data Storage: From Theory to Practical Systems. West Sussex: John Wiley & Sons, 2010.

### **Journal Articles**

1. L. Dhar, K. Curtis, and T. Faecke, "Holographic data storage: Coming of Age", Nature Photonics, 2, 403 (2008).
2. L. Dhar and E. Hortelano, "The Next Generation of Optical Data Storage – Holography", RadTech Report, November/December, 23 (2007).
3. "High performance recording media for holographic storage" One to One (The Next Generation special issue) (2007). (Authored as InPhase Technologies, Bayer Material-Science, and Hitachi-Maxell)
4. H. Coufal and L. Dhar, Guest Editors for the "Materials for Optical Storage" issue of the MRS Bulletin, 31, (2006)
5. L. Dhar, "High-Performance Polymer Recording Materials for Holographic Storage", MRS Bulletin, 31, 324(2006).

6. L. Dhar, "A New Venture in Holographic Storage", *The Industrial Physicist*, June/July, 26 (2001).
7. M. Schnoes, L. Dhar, M. Schilling, S. Patel, and P. Wiltzius, "Photopolymer-filled nanoporous glass as a dimensionally stable holographic recording medium", *Optics Letters*, 24, 658 (1999).
8. L. Dhar, A. Hale, H. Katz, M. Schilling, M. Schnoes, and F. Schilling, "Recording media that exhibit high dynamic range for holographic data storage", *Optics Letters*, 24, 487 (1999).
9. M. Schilling, V. Colvin, L. Dhar, A. Harris, F. Schilling, H. Katz, T. Wysocki, A. Hale, L. Blyler, and C. Boyd, "Acrylate Oligomer-Based Photopolymers for Optical Storage Applications", *Chemistry of Materials* 11, 247(1999).
10. L. Dhar, K. Curtis, M. Tackitt, M. Schilling, S. Campbell, W. Wilson, A. Hill, C. Boyd, N. Levinos, and A. Harris, "Holographic storage of multiple high capacity digital data pages in thick photopolymer systems", *Optics Letters*, 23(21), 1710 (1998).
11. L. Dhar, M. Schnoes, T. Wysocki, H. Bair, M. Schilling, and C. Boyd, "Temperature-induced changes in photopolymer volume holograms", *Applied Physics Letters*, 73(10), 1337 (1998).
12. J. Rogers, Z. Bao, and L. Dhar, "Fabrication of patterned electroluminescent polymers that emit in geometries with feature sizes into the submicron range," *Applied Physics Letters*, 73(3), 294 (1998).
13. S.K. Buratto, J.W.P. Hsu, L. Dhar, R.B. Bylisma, C.C. Bahr, and M.J. Cardillo, "Surface Science Applied to Lasers: Near-Field Optical Microscopy," *SPIE Proc.* 2547, 279 (1995).
14. L. Dhar, J.A. Rogers, K.A. Nelson, F. Trusell, "Moduli Determination in Polyimide Film Bilayer Systems: Prospects for Depth Profiling Using Impulsive Stimulated Thermal Scattering", *Journal of Applied Physics*, 77, 4431 (1995).
15. J.T. Fourkas, L. Dhar, and K.A. Nelson, "Spatially-Encoded, Single-Shot Ultrafast Spectroscopies", *Journal of the Optical Society of America, B*, 12(1), 155 (1995).
16. W. Wang, D.D. Chung, J.T. Fourkas, L. Dhar, and K.A. Nelson, "Single-Shot Femtosecond Spectroscopy of Reactive Organic Molecular Crystals", *Journal De Physique IV*, 5, C4-289 (1995).
17. L. Dhar, J.T. Fourkas, and K.A. Nelson, "Pulse-length-limited ultrafast pump-probe spectroscopy in a single laser shot", *Optics Letters*, 19(9) 643 (1994).
18. L. Dhar, J.A. Rogers, and K.A. Nelson, "Time-Resolved Vibrational Spectroscopy in the Impulsive Limit", *Chemical Reviews*, 94(1), 157 (1994). (invited paper).
19. J.A. Rogers, L. Dhar, and K.A. Nelson, "Noncontact determination of transverse isotropic elastic moduli in polyimide thin films using a laser based ultrasonic technique", *Applied Physics Letters*, 65(3), 312 (1994).
20. L. Dhar, J.A. Rogers, and K.A. Nelson, "Impulsive Stimulated Scattering Spectroscopy of Surface Acoustic Waves ", *Ferroelectrics*, 151, 275 (1994).
21. G. P. Wiederrecht, T. P. Dougherty, L. Dhar, and K. A. Nelson, "Anomalous Polariton Dynamics in LiTaO<sub>3</sub>", *Ferroelectrics.*, 150, 103(1993).
22. G. P. Wiederrecht, T. P. Dougherty, L. Dhar, and K. A. Nelson, "Explanation of Anomalous Polariton Dynamics in Lithium Tantalate", submitted to *Physical Review B*.
23. P. Spiberg, R.L. Woodin, J.E. Butler, and L. Dhar, "In-situ Fourier Transform IR Emission Spectroscopy of Diamond Chemical Vapor Deposition", *Diamond and Related Materials*, 2, 708 (1993).
24. S. M. Silence, A. R. Duggal, L. Dhar, and K. A. Nelson, "Structural and Orientational Relaxation in Supercooled Liquid Triphenylphosphite", *Journal of Chemical Physics*, 96, 5448 (1992).
25. A. L. Harris, L. Rothberg, L. Dhar, N. J. Levinos, and L. H. Dubois, "Vibrational Energy Relaxation of a Polyatomic Adsorbate on a Metal Surface: Methyl Thiolate on Ag(111)", *Journal of Chemical Physics*, 94, 2438 (1991).
26. A. L. Harris, L. Rothberg, L. H. Dubois, N. J. Levinos, and L. Dhar, "Molecular Vibrational Energy Relaxation at a Metal Surface", *Physical Review Letters*, 64, 2086 (1990).