

ROBERT C. DYNES

Born: November 8, 1942
Ontario, Canada
U.S. Citizenship 1984

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Education

1964 B.Sc. Mathematics and Physics, University of Western Ontario
1965 M.Sc. Physics, McMaster University
1968 Ph.D. Physics, McMaster University

Professional Experience

1968 - 1990 AT&T Bell Laboratories -- Murray Hill, New Jersey
1968 - 1970 Postdoctoral Fellow
1970 - 1974 Member of Technical Staff
1974 - 1981 Department Head, Semiconductor & Chemical Physics Research
Founder, AT & T Fellowship Program for Graduate Education
1981 - 1983 Department Head, Solid State & Physics of Materials Research
1983 - 1990 Director, Chemical Physics Research
1990 - 2003 University of California, San Diego, Professor of Physics
1994 - 1995 Chair, Department of Physics
1995 - 1996 Senior Vice Chancellor, Academic Affairs
1996 - 2003 Chancellor
2003 - 2008 University of California, Berkeley, Professor of Physics
2003 - 2008 President, University of California
2008 - Present University of California, San Diego, Professor of Physics
2008 - Present President Emeritus, University of California

Academic Honors

1978 Fellow of American Physical Society
1989 Fellow of Canadian Institute of Advanced Research
1989 Member, National Academy of Sciences
1990 International Fritz London Memorial Prize
1994 Member, American Academy of Arts and Sciences
1997 Honorary D.Sc. Degree, McMaster University
2004 Honorary LL.D. Degree, University of Western Ontario
2006 Honorary Doctorate, Université de Montreal

Boards, Commissions, and Advisory Groups Memberships

Chair, National Academy of Sciences "Study on Advanced Spectral Portals (ASP)
At the Nation's Borders" (2008-present)
Board, Argonne National Laboratory (1992-1998, 2008-present)
International Review Panel, Canada Foundation for Innovation (2008-present)

International Review Panel, Helmholtz Association (2008-present)
Board, San Diego Foundation (2008-present)
Canada-California Strategic Innovation Partnership (2005-2008)
California Commission for Jobs and Economic Growth (2005-2008)
Governor's Task Force on Nursing Education (2004-2008)
Council on Competitiveness (2002-2008)

Selected Speeches & Publications

Essay, "To Reinvigorate America, Put Our Future First," *Letters to the Next U.S. President: Strengthening America's Foundation in Higher Education*, The Korn-Ferry Institute, May 2008

Remarks at All-UC Lesbian, Gay, Bisexual and Transgender Alumni Event, San Francisco War Memorial Veterans Building, May 6, 2008

Final Report: "The University of California: Promise & Power of 10," April 2008

"UC agriculture programs: Investing in California's Future," *California Agriculture*, April-June 2008

Remarks at "Focus the Nation" Teach-In on climate change and environmental solutions, UC Davis, January 31, 2008

Opening remarks, California Public Utilities Commission workshop on proposed California Institute for Climate Solutions, December 12, 2007

Remarks at 2007 Council on Competitiveness Annual Reception and Dinner, U.S. Department of State, Washington, DC, October 25, 2007

Keynote address at Waseda University's 125th Anniversary Celebration, Tokyo, Japan, October 21, 2007

Keynote address at Indo-US Engineering Education Workshop, National Academy of Engineering, Washington, DC, August 29, 2007

Keynote address at the Indian Institutes of Technology 2007 Global Alumni Conference, Santa Clara, CA, July 7, 2007

Remarks on Generating a Pipeline of 21st Century Talent, Innovation America Forum, April 17, 2007

Testimony on "Science and Technology Leadership in a 21st-Century Global Economy" ("California Teach" K-12 Science and Math Initiative) before House Committee on Science and Technology, March 13, 2007

Remarks at Gallo Center Celebratory Dinner, Fairmont Hotel, January 18, 2007

Remarks at "Kids Space and Adventure" event for Oakland Mayor Ron Dellums' Inaugural Week Festivities, Chabot Center, Oakland, CA, January 8, 2007

Remarks for Lawrence Berkeley National Laboratory's 75th Anniversary Gala Dinner, November 15, 2006

“The University of California’s Role in Maintaining the State’s Long-Term Competitiveness,”
Keynote Address at The Milken Institute’s “State of the State 2006 Conference, October 30,
2006

Remarks at the California NAACP State Conference, October 28, 2006

Remarks at Sichuan University’s 110th Anniversary Ceremony, August 27, 2006

Address to the U.S.-India Summit on Education, Research and Technology, May 31, 2006

Testimony before the Senate Budget and Fiscal Review Committee Subcommittee on
Education, March 27, 2006

Discussant on the California Master Plan for Higher Education at American Council on
Education’s annual meeting, February 14, 2006

Keynote Address at the 17th annual meeting of the California Farm Bureau Federation,
December 5, 2005

Remarks at the inaugural ceremony for the California Institute for Quantitative Biomedical
Research, November 28, 2005

“UC Foreign Graduate Students: Why A World-Class University Needs the World’s Best
Minds” Keynote Address: Foreign Graduate Student enrollment and the U.S. Economy,
Universities and Security at the UC Irvine Beckman Center, October 17, 2005

Remarks at the UC Merced campus opening ceremony, September 5, 2005

My Life in Physics, Keynote Address at the Second Canadian-American-Mexican Physics
Graduate Student Conference, August 20, 2005

Remarks on *International Partnerships and the Global Future of Higher Education*, given at
the Saïd Business School, Oxford University, April 25, 2005

Remarks to the California Chamber of Commerce on UC’s contribution to the California’s
economic and social progress, March 11, 2005

Remarks on the importance of research partnerships among government, industry, and
universities, February 16, 2005

Remarks to the California Chicano-Latino Intersegmental Convocation, February 8, 2005

Remarks to the Academic Business Officers Group on preserving UC’s impact on California,
April 27, 2004

Opinion piece in the *San Francisco Chronicle* on UC’s impact on economic growth and health
care, April 16, 2004

Remarks at the memorial for UC President Emeritus Clark Kerr, February 20, 2004

Remarks to the California Community Colleges Board of Governors on the value of
intersegmental cooperation, January 13, 2004

Remarks to the UCLA Budget Forum on the centrality of higher education to California's future, December 1, 2003

Remarks for the *Expanding Opportunity in Higher Education Conference*, sponsored by UC and the Harvard Civil Rights Project October 23, 2003,

Remarks upon appointment as UC President, June 11, 2003

"Restrictions on Research Publication": Discussant at Association of American Universities' Plenary Session on Homeland Security, April 14, 2003

"Arts and Education: A Fruitful Partnership": Remarks at the City of San Diego's inaugural "State of Arts and Culture in San Diego" Convocation, March 20, 2003

Joint Session of California and New Mexico Senates; Testimony before Select Committee on Oversight of the Department of Energy Laboratories operated by the University of California, March 12, 2003

"Scientific Openness vs. National Security": Presentation at the Association of American Universities' Conference on Classified Research, March 10, 2003

"Developing Responsive Curricula" and "The Future of UC Professional Schools": Remarks at the UC Riverside Academic-Community Roundtable, held in conjunction with the Inauguration of Chancellor France Córdova, March 6, 2003

White House Town Hall Meeting in San Diego: Opening Remarks on Cybersecurity, January 28, 2003

"The UC-Community Colleges Partnership": Remarks at the Business-Higher Education Forum in San Diego, January 27, 2003

"Growing Up Under Blue Skies": Remarks at the inaugural meeting of the international Project Atmospheric Brown Cloud, November 5, 2002

"UC Staff: A Valuable University Asset": Address to the Council of University of California Staff Assemblies, June 6, 2002

U.S. Congress – Testimony on "Homeland Security" before the Military Research and Development Subcommittee, February 21, 2002

"The Mission of Research Universities": Remarks at National Academy of Sciences' Regional Meeting, November 29, 2001

"University-Industry Partnerships": Remarks at National Science Foundation Workshop, July 9, 2001

"Supporting Innovation is Key to U.S. Prosperity": Opinion piece, *San Diego Union-Tribune*, co-signed by Dr. Irwin Jacobs of Qualcomm and Julie Meier Wright of the S.D. Regional Economic Development Corporation, April 5, 2001

"Engaging Underrepresented Students in Research: The Role of Peer Influence": Guest editorial in *Camp Q Quarterly*, Spring 2001

Selected Scientific Publications & Presentations

S. Cybart, S.M. Wu, S.M. Siddiqi, J. Clarke, and R.C. Dynes, "Series Array of Incommensurate Superconducting Quantum Interference Devices from YBCO Ion Damage Josephson Junctions," *Applied Physics Letters*, **93**, 182502 (2008).

K. Hikari, R.P. Barber, S. Ono, Y. Ando, and R.C. Dynes, "Scanning Josephson Tunneling Microscopy of Single Crystal BSCCO With a Conventional Superconducting Tip," *Phys Rev Letters*, **101**, 037002 (2008).

D. Chen, S. Cybart, and R.C. Dynes, "Planar thin film $YBa_2Cu_3O_{7-8}$ Josephson junction pairs and arrays via nanolithography and ion damage," *APL*, **85**, 2863-2865 (2004).

S.V. Dordevic, D.N. Basov, R.C. Dynes, B. Ruzicka, V. Vescoli, L. Degiorgi, H. Berger, R. Gaal, L. Forro, and E. Bucher, Optical Properties of the quasi-two dimensional dichalcogenides 2H-TaSe₂ and 2H-NbSe₂, *Eur. Phys. J. B*, **33**, 15-23 (2003)

O. Naaman, W. Teizer, and R.C. Dynes, Fluctuation dominated Josephson tunneling with a scanning tunneling microscope, *Phys. Rev. Lett.* **87**, 097004-1 (2001)

W. Teizer, F. Hellman, and R.C. Dynes, Density of States of Amorphous Gd_xSi_1 at the Metal-Insulator Transition, *Phys. Rev. Lett.* **85**, 848-851 (2000)

K.A. Kouznetsov, A.G. Sun, B. Chen, A.S. Katz, S.R. Bahcall, J. Clarke, R.C. Dynes, D.A. Gajewski, S.H. Han, M.B. Maple, J. Giapintzakis, J.-T. Kim and D.M. Ginsberg, C-axis Josephson Tunneling Between $BYa_2Cu_3O_{71}$ and Pb: Direct Evidence for Mixed Order parameter Symmetry in a High- T_c Superconductor, *Phys. Rev. Lett.* **79**, 3050 -3053 (1997)

A.G. Sun, A. Truscott, A.S. Katz, R.C. Dynes, B.W. Veal and C. Gu, Direction of Tunneling in Pb/I/YBCO Tunnel Junctions, *Phys Rev. B* **54**, 6734 - 6741 (1996)

A.E. White, R.C. Dynes and J.P. Garno, Destruction of superconductivity in quench-condensed 2D films, *Phys. Rev. B* **33**, 3549 (1986).

D.J. Bishop, D.C. Tsui, and R.C. Dynes, Nonmetallic conduction in electron inversion layers at low temperatures, *Phys. Rev. Lett.* **44**, 1153-1156 (1980)

R.C. Dynes, J.P. Garno, and J.M. Rowell, Two-dimensional electrical conductivity in quench-condensed metal films, *Phys. Rev. Lett.*, **40**, 479-482 (1978).

P.B. Allen and R.C. Dynes, Transition temperature of strong-coupled superconductors reanalyzed, *Phys. Rev. B*, **12**, 905-922 (1975).

P. Hu, R.C. Dynes and V. Narayanamurti, Dynamics of quasiparticles in superconductors, *Phys. Rev.* **10**, 2786-2788 (1974)

V. Narayanamurti and R.C. Dynes, Observation of second sound in busmuth, *Phys. Rev. Lett.* **28**, 1461-1465 (1972)

C.K. Campbell, R.C. Dynes, and D.G. Walmsley, Anisotropy of the energy gap in superconducting lead-dismuth alloys, *Can. J. of Physics*, **44**, 2601-2604 (1966)