



*The Department of
Physics and Astronomy
at the
University of California, Riverside*

***Graduation Recognition
Ceremony***

*Virtual Ceremony via
Zoom and YouTube, 2:00 p.m.*

June 13, 2020

Welcome

Professor Kenneth Barish
Chair, Department of Physics and Astronomy

Keynote Speaker – Dr. Raymond Orbach, *UCR Chancellor 1992-2002*

Anne Kernan Memorial – Barry Barish, *2017 Nobel Laureate*

Candidates for Bachelor of Science Degrees
Professor Owen Long, *Undergraduate Advisory Chair*

Robert L. Wild Family Award - Outstanding 1st Year Undergraduate Student
Justin Burzachiello Shruti Palur Mallampalli

Michael Devarian Award - Outstanding 1st Year Undergraduate Student
Bruce Bagby

Brown Williams Endowment Award - Outstanding 2nd Year Undergraduate Student
Tristan Carlo Rojo Sanya Dhami Megan Samn

R. Stephen White Endowment Award - Outstanding 3rd Year Undergraduate Student
Riley Gleason Daniel Morales Kishan Patel

R. Stephen White Endowment Award - Outstanding Senior Undergraduate
Abby Leung Erik Hagan Tyler Smith

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Candidates for Master of Science and Doctor of Philosophy Degrees
Professor Jory Yarmoff, *Graduate Advisory Chair*

Outstanding Teaching Assistant

Elizabeth Finney Mehmet Kilinc Bryan Scott
Jeremiah vanBaren Welei Zeng

Albert Staats Award for Exceptional Skills in Designing and Building Physics Apparatus
Yuanqian Liu (*Prof. Harry Tom*)

Benjamin C. Shen Memorial Award - Outstanding 1st Year Graduate Student
Haoyu Liu and Andrew Weldon

Benjamin C. Shen Memorial Award- Outstanding Junior Graduate Student Researcher
Christopher Cain (*Prof. Anson D'Aloisio*) and Jessica Doppel (*Prof. Laura Sales*)

Anne Kernan Award - Outstanding Senior Graduate Student Researcher
Hamed Asasi (*Prof. Michael Mulligan*) and Sanaz Panahandeh (*Prof. Roya Zandi*)

Robert T. Poe Memorial Scholarship Award for Outstanding PhD Graduate
Trevor Arp (*Prof. Nathan Gabor*) and Mark Lohmann (*Prof. Jing Shi*)

Candidates for Bachelor of Science Degree

Mason Biggerstaff Gloria Cazares Oscar Chung
Bryan Cubillo Keanuhea Junior Dailey Daniel Peter

Nicholas Darden	Grace Dodgen	Jocelyn Fischer
Edason Freer	Calvin Glisson	Miguel Angel Gomez
Miriam Gonzalez	Nathan Gootee	Christopher Guerrero
Erik Hagen	Jeffrey Hendrix	Ryan Hernandez
Franco Iglesias	Ethan Jarquin	Ronny Keith Krogstad
Jose Lara Espinosa	Arturo Lares-Valencia	Clarence Lau
Zhen Lei	Abby Leung	Adrian Louie
Andre Medina	Igor Miroshnykov	Justin Mullins
Syris Norelli	Aiden-James Olvera	George Padilla
Bryant Vu Phan	Lizeth Romo	Simon Sandhofer
Endy Segundo	Emilie Simpson	Tyler Smith
Joshua Suarez	Kunsakol Triloges	Thinh Truong
Christopher Valenzuela	Andrew Vasquez	Benjamin Yin

Candidates for Master of Science Degree

William Baker	Christopher Cain	Cameron Chevalier
Malia Chavalier	Robert Dawson	Farima Farahmand
Elizabeth Finney	Nakul Gangolli	Adam Green
Mingda Guo	Meng Hou	Mehmet Kilinc
Jackson Kishbaugh-Maish	Brian Lee	John Lee
Xilin Liang	Yifan Liu	Erik Loyd
Alexander Mercaldi	Mahdi Qezlou	Careron Racz
Joshua Raimist	Shirash Regmi	Varrick Suezaki
Jonathan Turner	Chen Wang	Shixiong Wang
Michael Worcester	Linke Xie	Yongda Zhu

Candidates for Doctor of Philosophy Degree

Bassim Saleh Arkook (*Prof. Igor Barsukov*)
Trevor Arp (*Prof. Nathan Gabor*)
Mohamed Hamdy Elhashash (*Prof. Gillian Wilson*)
Lydia Elias (*Prof. Laura Sales*)
Tara Fetherolf (*Prof. Naveen Reddy*)
Shane Kelly (*Prof. Shan-Wen Tsai*)
Christina King (*Prof. Gaby Canalizo*)
Yawen Liu (*Prof. Jing Shi*)
Mark Lohmann (*Prof. Jing Shi*)
Adrian Nosek (*Prof. Marc Bockrath*)
Victor Ortiz (*Prof. Jing Shi*)
Jackson Pitts (*Prof. Kirill Shtengel*)
Robert Schafer (*Prof. Umar Mohideen*)
Remington Sexton (*Prof. Gaby Canalizo*)
Weinan Si (*Prof. Gail Hanson*)
Jon Spalding (*Prof. Shan-Wen Tsai*)
Jeremiah vanBaren (*Prof. Joshua Lui*)

Special thanks to the faculty and staff of the Department of Physics and Astronomy.
Without their help, this event would not have been possible:

Professor Kenneth Barish, *Chair*
Professor Frederick Hamann, *Vice-Chair*
Professor Vivek Aji
Professor Anson D'Aloisio
Professor Michael Anderson
Professor Miguel Arratia Munoz
Professor Barry Barish, *Nobel Laureate*
Professor Igor Barsukov
Professor John Barton
Professor George Becker
Professor Ward Beyermann
Professor Simeon Bird
Professor Marc Bockrath
Professor Gabriela Canalizo
Professor Robert Clare
Professor Yanou Cui
Professor Yongtao Cui
Professor John Ellison
Professor Nathaniel Gabor
Professor Bill Gary
Professor Gail Hanson
Professor Boerge Hemmerling
Professor Thomas Kuhlman
Professor Owen Long
Professor Joshua Lui
Professor Allen Mills
Professor Bahram Mobasher
Professor Umar Mohideen
Professor Michael Mulligan
Professor Leonid Pryadko
Professor Naveen Reddy
Professor Laura Sales
Professor Rich Seto
Professor Jing Shi
Professor Kirill Shtengel
Professor Brian Siana
Professor Flip Tanedo
Professor Harry Tom
Professor Shan-Wen Tsai
Professor Peng Wei
Professor Gillian Wilson
Professor Stephen Wimpenny
Professor Jose Wudka
Professor Jory Yarmoff
Professor Hai-Bo Yu
Professor Roya Zandi

Cheryl Atchison	Jeremy Alexander
Dr. Derek Beving	Ngara Bird
Mayela Castillo	Jazmin Chavez
Dillon Gidcumb	Rusty McCune
Heather McDermott	David Neff
Jack Reid	Dr. Marcelina Ryneal
Wendy Tapia	Christina Taylor

Congratulations Class of 2020!

**PHYSICS AND ASTRONOMY GRADUATION RECOGNITION CEREMONY
KEYNOTE SPEAKER**



Dr. Raymond Orbach is the founding director of The University of Texas at Austin's Energy Institute, a multidisciplinary institute that combines the strengths of the university's schools and colleges to advance solutions to today's energy-related challenges. He also has joint appointments as a professor with tenure in the Cockrell School's Department of Mechanical Engineering; the College of Natural Sciences' Physics Department; and the Jackson School of Geosciences.

From March 14, 2002 until mid-2009, Orbach was Director of the Office of Science at the Department of Energy and was sworn in as the Department of Energy's first Under Secretary for Science in June 2006. As the Department's Chief Scientist, he was

adviser to Secretary of Energy Samuel W. Bodman for science policy and programs, including basic and applied research ranging from nuclear energy to environmental clean-up of Cold War legacy sites to defense programs. He was responsible for planning, coordinating, and overseeing the Energy Department's research and development programs, its 17 national laboratories and its science and engineering education activities.

Orbach was also responsible for the Department's implementation of the President's American Competitiveness Initiative, designed to help drive continued economic growth in the U.S. He led the Department's efforts to transfer technologies from the Department of Energy's national laboratories to the global marketplace.

Orbach began his academic career as a postdoctoral fellow at Oxford University and became an assistant professor of applied physics at Harvard University. He joined the faculty of the University of California, Los Angeles (UCLA) as an associate professor, and became a full professor in 1966. Orbach's research in theoretical and experimental physics has resulted in the publication of more than 240 scientific articles, and he is a fellow of the American Physical Society and the American Association for the Advancement of Science. From 1982 to 1992, he served as Provost of the College of Letters and Science at UCLA, and from 1992 to 2002 as Chancellor of the University of California, Riverside.

Orbach received a Bachelor of Science degree in Physics from the California Institute of Technology and a Ph.D. in Physics from the University of California, Berkeley.