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Coevolution of Black Holes and Galaxies

October 20-25, 2002

Host: Luis Ho

- **Observational Evidence for Black Holes**
(Ghez, Ho, Kormendy, van der Marel)
- **Formation Processes**
(Blandford, Clarke, Haiman, Rasio, Shapiro, Sigurdsson)
- **Growth and Fueling**
(Martini, Sellwood, Wada)
- **Central Structure of Galaxies**
(Carollo, Gebhardt, Lauer, Merritt)
- **Black Hole Demographics and Host Galaxies**
(Barth, Dunlop, Fall, Osmer, Richstone)
- **Connections to Galaxy Formation**
(Begelman, Burkert, Haehnelt, Heckman, Somerville)
- **Implications for the Background Radiation**
(Fabian, Phinney)
- **Summary**
(Rees)

2

Measuring and Modeling the Universe

November 17-22, 2002

Host: Wendy Freedman

- **Historical and Theoretical Overview**
(Christianson, Guth, Longair, Randall, Silk, M. Turner)
- **Cosmological Parameters**
(Freedman, Kamionkowski)
- **The Hubble Constant**
(Carlstrom, Schechter, Tonry)
- **Matter Density**
(Sadoulet, Trimble)
- **Gravity Waves**
(Flanagan)
- **Cosmological Constant, Dark Energy**
(Filippenko, E. Turner, S. Weinberg)
- **Cosmic Microwave Background**
(Lange, Page, Readhead, Spergel, Zaldarriaga)
- **Summary**
(Blandford, Faber)

3

Clusters of Galaxies: Probes of Cosmological Structure and Galaxy Evolution

January 26-31, 2003

Host: John Mulchaey, Alan Dressler, and Augustus Oemler

- **Historical and Theoretical Overview**
(Kauffmann, Oemler, White)
- **Optical and X-ray Cluster Surveys**
(Colless, Edge, Rosati, Vogeley)
- **Finding Clusters at Large Redshifts**
(Dickinson, Gladders, Steidel)
- **Dark Matter in Galaxy Clusters**
(Evrard, Smail)
- **The Intracluster Medium**
(Birkinshaw, Donahue, Mushotzky)
- **Galaxies and Metal Production**
(Davies, Poggianti, Renzini, Trager)
- **Galaxy Evolution in Clusters**
(Dressler, Ellis, Mihos, Moore, van Gorkom)
- **Group/Cluster Connections**
(Bower, Carlberg, Mulchaey)
- **Summary**
(Ostriker)

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Origin and Evolution of the Elements

February 16-21, 2003

Host: Andrew McWilliam and Michael Rauch

- **Historical and Current Overview**
(M. Burbidge, Preston, Wallerstein)
- **Theory, Models, and Techniques**
(Busso, Cowan, Gustafsson, Henry, Matteucci, Woosley)
- **Composition of Stars in the Galaxy**
(Boesgaard, Kudritzki, Lambert, McWilliam, Nissen, Norris, Smith, Sneden)
- **Composition of Stars in Nearby Galaxies**
(Grebel, Hill, Rich, Shetrone, Smecker-Hane)
- **Composition of the Interstellar Medium**
(Draine, Hughes, Jenkins, Wiklind)
- **Extragalactic Abundances from Integrated Light**
(Garnett, Loewenstein, Martin, Steidel, Trager)
- **Abundances from Quasar Spectra**
(Hamann, Prochaska, Rauch)
- **Summary**
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CELEBRATING A CENTURY OF ASTRONOMY

Centennial Symposia

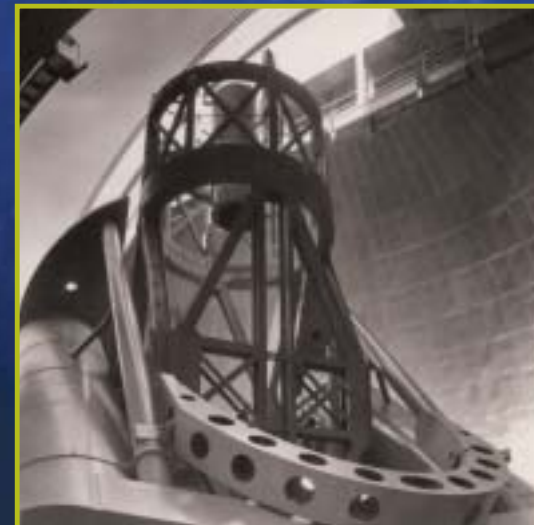
Edwin P. Hubble



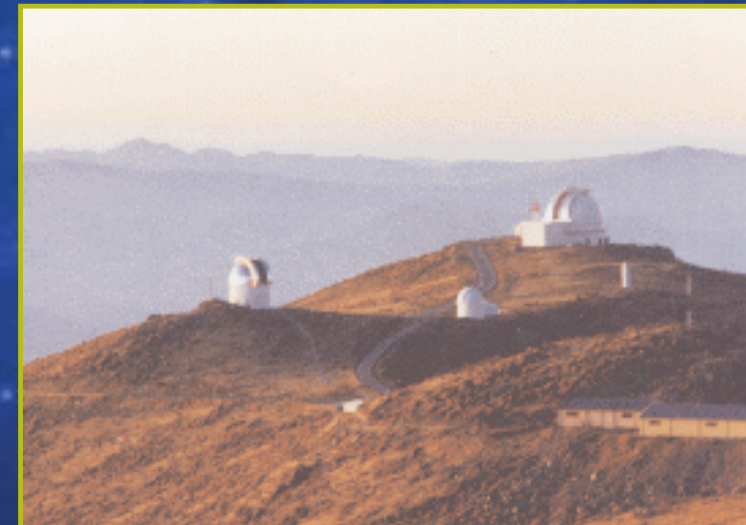
Hooker 100-inch telescope at Mt. Wilson Observatory



Hale 200-inch telescope at Palomar Observatory



The Swope 40-inch and du Pont 100-inch telescopes at Las Campanas Observatory



The twin 6.5-meter Magellan telescopes at Las Campanas Observatory



Carnegie Observatories headquarters in Pasadena

