



## **Chris Smith**

**Director & Head of Mission, AURA Observatory in Chile**



Dr. Smith has served since 2009 as Director and Head of Mission of AURA Observatory in Chile, providing high-level oversight and coordination for the local activities of all of the telescopes acting under the auspices of AURA in Chile, including Cerro Tololo Inter-American Observatory, Gemini-South, SOAR, LSST, and other smaller projects. Previously, Dr. Smith held the position of the Director of the Cerro Tololo Inter-American Observatory (CTIO), the southern-hemisphere facilities of the U.S. National Optical Astronomy Observatory, responsible for both the operations of the site infrastructure as well as CTIO telescopes. He has also served as head of NOAO's data archiving & processing efforts and instrument scientist for wide-field optical imaging cameras and spectrographs at CTIO.

Dr. Smith came to Chile in 1991 as a CTIO Research Fellow after completing his Ph.D. at Harvard University. His research interests focus on supernovae, supernova remnants and the interstellar medium, and include the use of supernovae in cosmological studies. Dr. Smith is a member of the High-z Supernova team that first published the discovery of the accelerating universe, an accomplishment that was recently recognized with the 2011 Nobel Prize in Physics. Dr. Smith is continuing his scientific studies in supernovae and wide-field imaging surveys using and supporting the new 570-megapixel Dark Energy Camera (DECam) on the CTIO Blanco 4m telescope and is involved in the operational planning for the Large Synoptic Survey Telescope (LSST), which will be built on the AURA Observatory site in northern Chile in the next five years.

## **Claus Madsen**

**Senior Counselor for International Relations and Member of the Cabinet of the ESO Director General**



Claus Madsen has devoted his professional life to two strands of activities: International science policy and public science communication. Born in 1951 in Copenhagen, he holds an MSc (Science) from the Open University (UK).

He has been an International Staff Member of ESO since 1980, assuming different responsibilities as Public Relations Officer, European Affairs Officer, and Head of ESO's Public Affairs Department, among other positions.

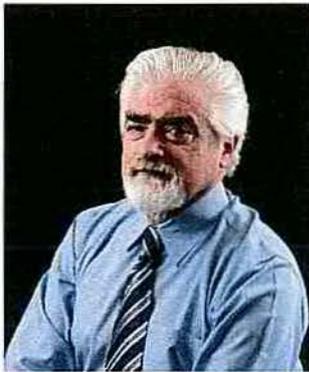
In the past, he has assisted the ESO Director General in a range of policy issues, including negotiations with candidate countries and has represented ESO at the United Nations Committee for the Peaceful Uses of Outer Space.

Between 2000 and 2007 he coordinated the relations between ESO and the EU and he has also served as an Expert for the European Commission and various national and international bodies.



## **Eduardo Hardy**

**Associated Universities Inc. (AUI) Director and Representative in Chile**



Dr. Hardy has developed a prominent scientific career in Canada, as the Director at the Astrophysics Laboratory, Physics Department, of the U. Laval; co-Director, at the Mont Mégantic Center, of the U. Laval & U. Montréal; and Associate Director, at the Mont Mégantic Observatory.

As of 1998, Dr. Hardy has been the Associated Universities Inc. (AUI) Director and Representative in Chile, institution that represents the North American fraction of the Atacama Large Millimeter/submillimeter Array (ALMA), an international astronomy facility, partnership of Europe, North America and East Asia in cooperation with the Republic of Chile.

Dr. Hardy has been a professor at the Physics Dept., Université Laval (1977-1998), Québec, Canada, and is an Adjoint professor at the Astronomy Dept. in Universidad de Chile. He has also been a member of the Joint ALMA-CONICYT grant committee since its inception; the Chilean Time Allocation Committee (for CTIO and Las Campanas); and reviewer of grant applications for CONICYT-Chile. On these committees he has been supporting and enhancing the development of local Astronomy in Chile for a number of years.

## **Felipe Barrientos**

**Associate Professor of the Institute of Astrophysics, Pontificia Universidad Católica de Chile**



Felipe Barrientos obtained his BSc at Universidad de Chile and his PhD at the University of Toronto. Since 2004 he is associate professor in the Institute of Astrophysics at the Pontificia Universidad Católica de Chile. He develops his research in the fields of galaxy evolution, galaxy clusters and cosmology. Professor Barrientos has served in several committees at a scientific and political level involving the international observatories in Chile, including ALMA, ESO, OCIW and CTIO. He is currently the acting president of the Sociedad Chilena de Astronomía (SOCHIAS).



## **Gabriel Rodríguez**

**Ambassador, Director of Energy, Science and Technology and Innovation, Ministry of Foreign Affairs**



Ambassador Rodríguez has been professor at the Faculty of Engineering of the Pontificia Universidad Católica de Chile in the subjects of Project Evaluation and Technological Development. He has also served as councilor for several Chilean corporations, consultant for the Italian Oil Company (ENI) and for several UN System agencies in matters of communications and technology. Mr. Rodríguez currently serves as the Director of Energy, Science, Technology and Innovation at the Ministry of Foreign Affairs, and has actively participated in negotiations of international energy and S&T agreements, lending support to national research, development and innovation programs. He also serves as Executive

Secretary of the Chile – California Council.

As of 2009, Mr. Rodríguez has been in charge of international negotiations leading to the installation and operation of major astronomical observatories in Chile (GMT, LSST, E-ELT and ALMA).

## **Miguel Roth**

**Director of Las Campanas Observatory, Carnegie Institution**



Miguel Roth has been a member of the scientific staff of Carnegie Observatories (Pasadena) since 1990. He has been the Director of the Las Campanas Observatory and Legal Representative of the Carnegie Institution in Chile. During his term as such, he has supervised the construction, commissioning and operation of the Magellan Telescopes at Las Campanas. Over the last years, he has been in charge in Chile of the activities leading to the construction of the Giant Magellan Telescope. His scientific activities have been centered in the area of Star Formation and Early Stellar Evolution.

He has also been an active member of the Carnegie Supernova Project. From 1976 through 1989, Dr. Roth was a Full Professor at the Institute of Astronomy of the UNAM, in México, and the Director of the Observatorio Astronómico Nacional at San Pedro Mártir, in Baja California, México.



## Osamu Matsubara

Legal Representative in Chile of Corporation National University, University of Tokyo



Osamu Matsubara was Coordinator of Work Construction Observatory Nanten (Nagoya University Japan) during October of 2004. From March to June of 2005 he was Coordinator of Work Domo Repair of Observatory Tokyo University in Haleakala – Hawaii. Between December of 2006 and May of 2007 he administrated the construction of the road in Chajnantor Hill for Proyecto TAO (Tokyo Atacama Observatory) and from November of 2008 to May of 2009 he performed as Administrator of the Construction of Mini TAO Observatory (5640msnm) Cerro Chajnantor.

## Pedro Sanhueza

Director of the Office for Protection of the Quality of the Sky of the North of Chile (OPCC)  
Responsible of the Focal Point for Latin America of the Starlight Initiative



Pedro Sanhueza studied Education at the Universidad de la Serena and has a Master in Social Sciences from the Universidad Alberto Hurtado. He was responsible for the environmental impact study of ALMA and has participated in the coordination of environmental impact studies in the fields of mining, energy and infrastructure. He also created the OPCC, and has been responsible for the initiative to categorize *Parque Nacional Bosque Fray Jorge* as a Starlight Reserve location. He also elaborated manuals and the new version of the regulation against light pollution actually applied in Chile.