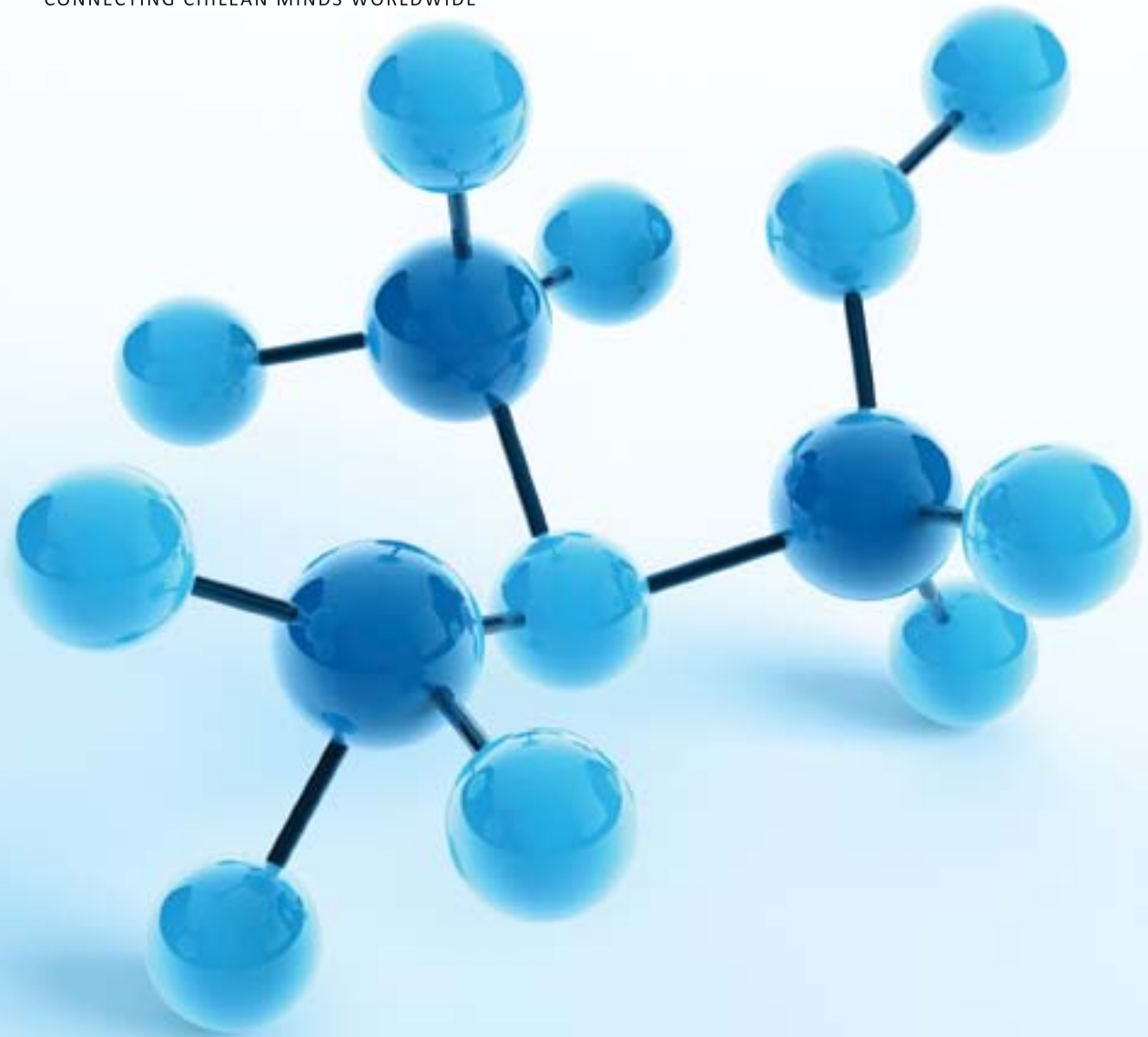




ENCUENTROS

BERKELEY 2011

CONNECTING CHILEAN MINDS WORLDWIDE



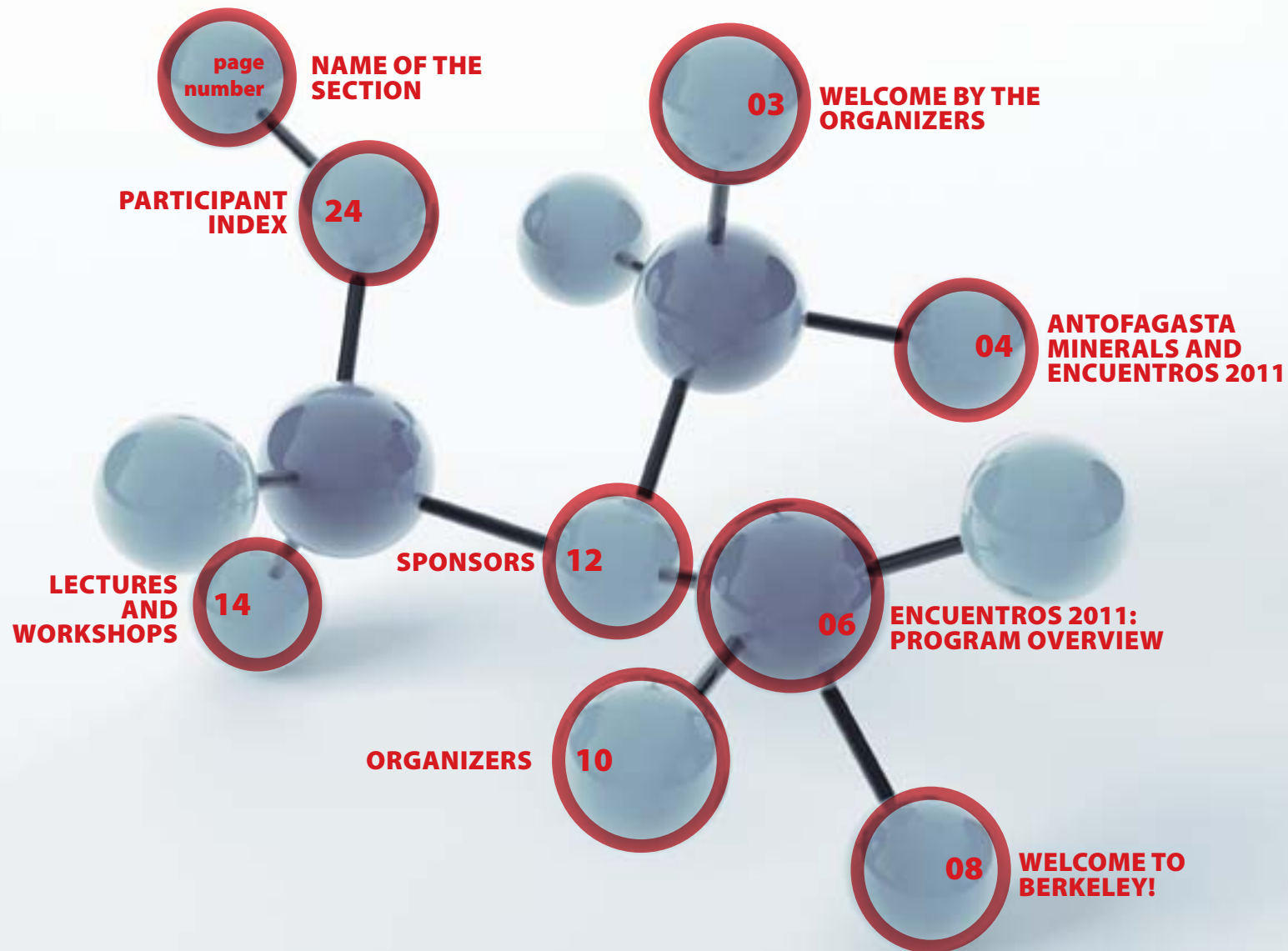
UNIVERSITY OF CALIFORNIA, BERKELEY CONFERENCE VOLUME

10-12 NOVEMBER 2011



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Welcome to Encuentros 2011 “Connecting Chilean Minds Worldwide”
The largest conference of Chilean students, professionals and entrepreneurs

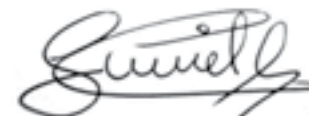
Since 2006, the ‘Encuentros’ conferences have been held annually in Europe and have served as a platform for interaction for Chilean students and professionals working abroad, their counterparts in Chile, and foreign students and professionals interested in exchange and collaboration with Chile. Each year the conference has grown in the number of participants and of areas of knowledge covered and for 2011 we have opened the conference to new horizons and we meet this time at the University of California Berkeley, USA, the best public University in the world. The aim is to generate active Encuentros communities at both sides of the Atlantic to continue connecting Chilean minds worldwide.

Encuentros 2011 is a non-for-profit conference which results from the work of 21 volunteers that over the past 15 months have spent a significant part of their spare time to materialize this initiative. Also, for the first time this year, we have counted with a tremendous advisory board which has been instrumental at shaping the conference. Acknowledgements are in order to all the institutions and corporations that have believed in Encuentros and have funded or supported this initiative. Special thanks go to our Silver sponsors: Brotar Sciences & Biotechno-

logy, Aurus Gestión de Inversiones, Banco Santander, and Consejo Chile-California, Gold Sponsors Fundación Imagen de Chile and Fundación Ciencia para la Vida, and Platinum Sponsor Grupo Antofagasta Minerals. You will notice that media partners El Mercurio, Latin Venture, and Canal 13C will be covering the event, the latter of which will also be recording a documentary based on Encuentros 2011 and the stories of their participants.

Along the years, the Encuentros conferences have increasingly recognized the key role that multidisciplinary meetings play in accelerating the career opportunities of their participants, through the creation of new collaborations and through the exchange of knowledge which result in generating innovative ideas and opportunities. It was with this in mind that this year’s conference aims to bring together students, professionals and entrepreneurs from all areas of knowledge and expertise, as you can explore from the program in the pages ahead. In addition, to promote interaction and friendship among the participants, Encuentros continues to offer a number of high quality and fun social activities.

We are confident this year the Encuentros conference will become an intellectual springboard where both, Chileans and foreign nationals interested in Chile can exchange knowledge and entrepreneurial experience in order to build networks that can expand and enhance their contributions to Chile’s social and economic development.



Daniel Almonacid / Conference President
on behalf of all the organizers of Encuentros 2011



**GRUPO
ANTOFAGASTA
MINERALS**

Saludo del Sr. Marcelo Awad A.,
Presidente Ejecutivo del Grupo Antofagasta Minerals

Santiago, octubre 2011

Por segundo año el Grupo Antofagasta Minerals acompaña el esfuerzo de organizar la conferencia Encuentros, esta vez en su versión 2011 en la Universidad de California, en Berkeley, Estados Unidos. Para nosotros es altamente gratificante poder contribuir a esta instancia de intercambio de experiencias y oportunidades para los investigadores e innovadores chilenos provenientes tanto de nuestro país como del extranjero.

El Grupo Antofagasta Minerals comparte la visión por integrar y consolidar un esfuerzo conjunto en pos del desarrollo de la creatividad y la innovación como pilar estratégico del desarrollo de Chile.

Esta empresa de capitales privados mayoritariamente nacionales y listada en la Bolsa de Valores de Londres, se ha propuesto también salir al mundo a buscar nuevas oportunidades de creación de valor económico, social y ambiental, y para ello depende fuertemente de las capacidades y conocimientos de profesionales chilenos y, cada vez más, de sus fortalezas para vivir en un mundo globalizado.

En nuestros proyectos nos hemos destacado por innovar y aplicar soluciones sustentables, como el uso de agua de mar para el 100% de las necesidades de nuestras mineras Michilla y la recientemente inaugurada Esperanza, ubicadas en pleno Desierto de Atacama. Nuestras próximas iniciativas en el norte de Chile también proyectan el uso de agua de mar, al igual que en los casos anteriores sin desalinizar en los procesos principales, lo que implica un importante ahorro de energía.

En materia energética el Grupo Antofagasta Minerals también viene explorando en la búsqueda de alternativas sustentables. Desde 2000 su Minera Los Pelambres genera el 10% de la energía que necesita a través del sistema de frenado de correas mina-planta y proyecta integrar energía eólica. En tanto, Minera El Tesoro implementará la mayor planta termosolar del continente. Antofagasta Minerals igualmente impulsa la energía geotérmica, a través de Energía Andina, y el aprovechamiento sustentable del carbón a través de su gasificación in situ, en el actual proyecto piloto Mulpun Energy. Estos son algunos ejemplos de cómo nuestra actividad requiere buenas ideas y profesionales preparados para llevarlas a cabo.

Eso es también Encuentros 2011. Una gran idea y una gran responsabilidad de generar las redes que permitan el desarrollo de nuestra capacidad científica e innovadora como país.

Con el sentido de aportar a la humanidad un metal básico para el progreso y sustentabilidad en sus condiciones de vida, especialmente de millones de personas que se vienen integrando a mayores niveles de desarrollo, el Grupo Antofagasta Minerals se siente interpretado por el esfuerzo de creatividad y de generación de una comunidad que significa Encuentros 2011.

Mucho éxito en Berkeley. Atentamente,

Marcelo Awad A.
Presidente Ejecutivo, Antofagasta Minerals

Antofagasta Minerals es la división minera de Antofagasta plc, empresa de capitales privados mayoritariamente chilenos y listada en la Bolsa de Valores de Londres, formando parte del FTSE-100 Index. Actualmente opera las mineras Los Pelambres, Esperanza, El Tesoro y Michilla, ocupando aproximadamente el décimo lugar entre los productores de cobre en el mundo, a lo que se suma la venta de molibdeno y oro como subproductos. El grupo desarrolla nuevos proyectos y exploraciones en Chile, así como en diversos países de América del Norte, Europa, Asia y África, además de Australia.

ENCUENTROS 2011: PROGRAM OVERVIEW

Time	Thursday - November 10th
15.00-18.00	Pre-Conference Registration
18.00-18.30	Welcome Remarks by Organizers
18.30-20.30	<p>ROUND TABLE "HACIENDO CHILE FUERA DE CHILE"</p> <p>This activity is the only one in the program to be conducted in Spanish. Its goal is to open a dialogue through a roundtable discussion about a number of initiatives led by motivated Chileans who are looking to connect entrepreneurs, businessmen and Chilean researchers with the world.</p> <p>Molly Pollack (Chile Global) Denise Saint-Jean (CONICYT) Ma. José Gallardo (ANIP) Rolando Ortega (Consulate of Chile in SF) Jorge Rojas (Chile-UC Davis Partnership)</p>
20.30-22.00	Welcome Reception with Horacio Salinas
22.00-1.30	Pub Crawling in Berkeley

Time	Friday - November 11th
8.00-9.00	On-Site Registration
9.00-9.45	<p>EVENT OPENING</p> <p>Welcome Remarks Hernan Cheyre</p>
9.45-10.45	<p>KEYNOTE SPEAKER</p> <p>Parag Saxena</p>
10.45-11.30	Coffee Break
11.30-13.00	<p>BIOMEDICINE</p> <p>Grabbing the Cat by the Tail: Discrete Steps by a DNA Packaging Motor and the Inter-Subunit Coordination in a Ring-ATPase - Carlos Bustamante</p> <p>Chile's Maternity Leave Legislative Bill: An evidence based analysis from a public health perspective - Sylvia Guendelman</p> <p>The GIGA: an initiative of the University of Liège for the economic redeployment of its Region - Joseph Martial</p>
13.00-14.30	Lunch
14.30-16.00	<p>SOCIAL & POLITICAL SCIENCES</p> <p>Chile from the Outside: A Comparativist's Perspective - Ruth Collier</p> <p>Protest and Political Discontent in Chile: Party Character and Education Policy in the Free-Market Era - Jennifer Pribble</p>
16.00-16.45	Coffee Break
16.45-18.15	<p>LAW & ECONOMICS</p> <p>International Criminal Law by Other Means - Alexandra Huneeus</p> <p>Explaining Multi-Institutional Transnational Mobilization: Tactical Shifts in the Campaign of the U'wa People in Colombia (1995-2005) - Pablo Rueda</p> <p>Macro-Contingent Unemployment Insurance - Eliás Albagli</p>
18.30-19.30	<p>WORKSHOP "NOBEL IDEAS"</p> <p>Charles H. Townes, Douglas D. Osheroff</p>
19.30-21.30	POSTER SESSION / COCKTAIL
21.30-1.30	CityTour "Night life in San Francisco"

Time	Saturday - November 12th
9.00-10.30	<p>INFORMATION TECHNOLOGY</p> <p>Establishing An International Research Program in Computer Science and Information Technology: Some Experiences - Leopoldo Bertossi</p> <p>Models for University Collaborations between Chile and California - Isaac Scherson</p>
10.30-11.15	Coffee Break / Poster Exhibition
11.15-12.45	<p>ARTS, LITERATURE & ARCHITECTURE</p> <p>A Chilean Writer in US Academia - Lina Meruane</p> <p>Latin American influence in Chilean folk music - Horacio Salinas</p> <p>Growth, Light, Emergence, and Structure - Mark Sarkisian</p>
12.45-14.15	Lunch
14.15-15.45	<p>EXACT SCIENCES, ENGINEERING & ENERGY</p> <p>Chilean Energy Challenge in the next Decade - Rodrigo Palma</p> <p>A North-South Nexus towards Sustainability - Giri Venkataramanan</p> <p>Microengineering The Future of Sustainable Social Housing - María Paz Guitierrez</p>
15.45-16.30	Coffee Break / Poster Exhibition
16.30-17.30	<p>KEYNOTE SPEAKER</p> <p>W. James Nelson</p>
18.00-19.00	<p>FEATURED ADDRESS</p> <p>Michelle Bachelet</p>
19.30-22.00	E2011 Conference Dinner
22.30-2.00	E2011 Conference Party

Welcome to Berkeley!

Berkeley is a city with a small population and a big reputation, famous around the globe as a center for academic achievement, scientific exploration, free speech and the arts.

The University of California was chartered in 1868 and its flagship campus — envisioned as a “City of Learning” — was established at Berkeley, on San Francisco Bay. Today the world’s premier public university and a wellspring of innovation, UC Berkeley occupies a 1,232 acre campus with a sylvan 178-acre central core. From this home its academic community makes key contributions to the economic and social well-being of the Bay Area, California, and the world (more information about UC Berkeley, www.berkeley.edu)

Venue

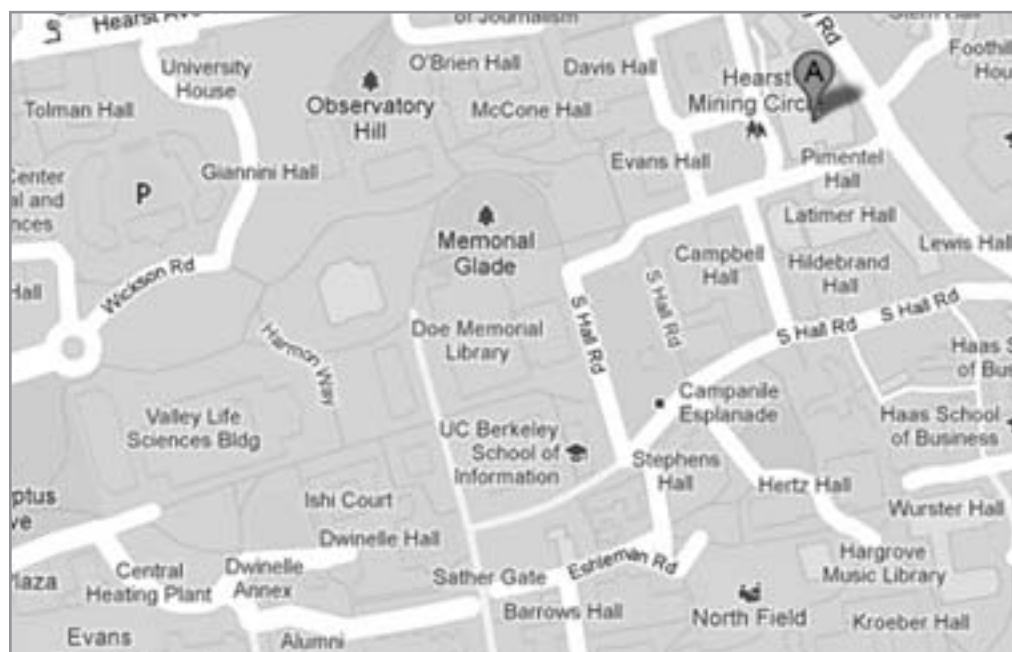
The meeting will take place at the University of California, Berkeley, at QB3 Stanley Hall Building, Classroom 105. The Building is located at the East Gate of UC Berkeley Campus next to the Hearst Memorial Mining Building.

More Info About Stanley Hall:
<http://qb3.berkeley.edu/qb3/stanley.cfm>

Email and Internet Facilities

Internet access is available free of charge with a password that will be provided at the registration desk. Please ask there for further details and information.

Where is the QB3 Stanley Hall Building in the Berkeley Campus Area?



A: QB3 Stanley Hall Building

Important contact phone numbers

Consulate General of Chile in San Francisco
Phone: (415) 982 7665 / (415) 982 7662
<http://chileabroad.gov.cl/san-francisco/>

UC Berkeley Directory Assistance: (510) 642-6000

Police and Medical Emergency: 911

SFO - San Francisco International Airport: (650) 821 8211

Taxi: Yellow Cab: (510) 774 7575

Other useful info

Climate

Berkeley has a cool summer Mediterranean climate (Köppen climate classification Csb), with dry summers and wet winters. Spring and fall are transitional and intermediate, with some rainfall and variable temperature.
Average high °F (°C) (nov): 62 (16)
Average low °F (°C) (nov): 47 (8)

Things To Do

Tour the Berkeley Campus

The UC Berkeley Visitor Center offers tours seven days a week, with reservation, led by expert student guides who know the campus and the nuances of student life.

Price: Free of charge.

Reservations & More Info: <http://visitors.berkeley.edu/tour/general.shtml>

Telegraph Avenue

Which runs north-south from the University Campus to Oakland, historically the site of much of the “hippie” presence in Berkeley, Telegraph Avenue is home to many restaurants, bookstores, and clothing shops, along with street vendors occupying its wide sidewalks. Telegraph attracts a diverse audience of visitors, including college students, tourists, artists, street punks, eccentrics, and the homeless.

Solano Avenue

Solano Avenue is one of the larger shopping districts in the Berkeley area. Businesses along Solano Avenue cover a wide range, including grocery stores, coffee shops, drugstores, bookstores, antique dealers, apparel outlets, ethnic restaurants and movie theaters.

Anna’s Jazz Island

Live Jazz Music, 2120 Allston Way
Reservations & More Info: <http://www.annasjazzisland.com>

Tilden Park

One of the District’s three oldest parks, Tilden has been called the jewel of the system, and its recreational activities have become a happy tradition for generations of East Bay youngsters.

More Info (and Source): <http://www.ebparks.org/parks/tilden>

Cal Performances

The University is showing all kinds of performances all the time,
More Info: <http://www.calperfs.berkeley.edu/>

Berkeley Public Library

2090 Kittredge at Shattuck
More Info: <http://www.berkeleypubliclibrary.org/>

Recommended Restaurants

Cheeseboard Pizza (Pizza)

1512 Shattuck Ave, Berkeley, CA 94709-1517
(510) 549-3183 | cheeseboardcollective.coop/

Top Dog Berkeley Southside (American / Hot Dogs)

2534 Durant Ave, Berkeley, CA 94704-1771
(510) 843-5967 | www.topdoghotdogs.com/

Trattoria La Siciliana (Italian Food)

2993 College Ave, Berkeley, CA 94705
(510) 704-1474 | www.trattorialasiciliana.com/

Venus Restaurant (American Food, Californian Food, Cafe)

2327 Shattuck Ave, Berkeley, CA 94704
(510) 540-5950 <http://www.venusrestaurant.net/>

Chez Pannise (Californian Food)

1517 Shattuck Ave, Berkeley, CA 94709-1598
(510) 548 5525 <http://www.chezpannise.com/intro.php>

Ici Ice Cream Shop (Dessert / Ice Cream)

2948 College Ave, Berkeley, CA 94705
(510) 665-6054 | www.ici-icecream.com/

La Note (French)

2377 Shattuck Ave, Berkeley, CA 94704
(510) 843 1535 | www.lanoterestaurant.com/

Bette’s Oceanview Diner (American, Cafe, Seafood)

1807 Fourth Street, Berkeley, CA 94710
(510) 644 3230 | www.worldpantry.com/bettes/home.html

Jupiter

2181 Shattuck ave, Berkeley, CA 94704
(510) 843 8277 <http://www.jupiterbeer.com/>

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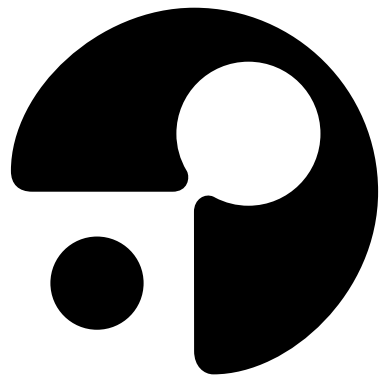
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13C CULTURA CON OTROS OJOS



Featured Address



Featured Address Open to the General Public

Michelle Bachelet, United Nations' Under-Secretary-General for Gender Equality and the Empowerment of Women (UN Women)

Ms. Bachelet most recently served as President of Chile from 2006 to 2010. A long-time champion of women's rights, she has advocated for gender equality and women's empowerment throughout her career. One of her major successes was her decision to save billions of dollars in revenues to spend on pension reform, which guaranteed a programme of social protections for women and children, despite the financial crisis. This included tripling the number of free early child-care centres for low-income families and the completion of some 3,500 child-care centres around the country.

Ms. Bachelet also held ministerial portfolios in the Chilean Government as Minister of Defence and Minister of Health. As Defence Minister, Ms. Bachelet introduced gender policies intended to improve the conditions of women in the military and police forces. As Minister of Health, she implemented health-care reform, improving attention to primary care facilities with the aim of ensuring better and faster health-care response for families.

Ms. Bachelet holds a medical degree. She also studied military strategy at Chile's National Academy of Strategy and Policy and at the Inter-American Defense College in the United States.

Event Opening



CORFO: the Chilean Economic Development Agency

Hernán Cheyre, Executive Vicepresident of CORFO

The Chilean Economic Development Agency, seeks to promote entrepreneurship and innovation in order to improve Chile's productivity and to help the country to become a global leader in competitiveness.

Previously, Hernan Cheyre served as Chairman of ECONSULT, a consulting company he personally founded in 1985 that is focused in economic analysis, financial matters and portfolio management. He also was chairman of the ECONSULT Investment Fund, dedicated to investing in private equity and venture capital.

Keynote Speakers



Was your Ancestor a Slime mold? The Evolution of Epithelia and Animals

W. James Nelson, Stanford University

A tube surrounded by a simple layer of cells, called an epithelium, is the most basic tissue organization in animals. Epithelial organization requires proteins that glue cells together and organize the interior cytoskeleton of the cells that are thought to have evolved at the time animals first appeared, about 600 million years ago. I will show evidence that an epithelial tube occurs in organisms that are much more primitive than animals, and that the mechanisms involved are similar to those in animals, thus demonstrating an evolutionarily conserved mechanism in issue organization that may have originated 1.5 billion years ago.



New Silk Route

Parag Saxena, CEO of NSR Partners

New Silk Route is a \$1.4 billion fund dedicated to India and other emerging economies of Southeast Asia. Parag is also co-founder & CEO of Vedanta Capital LLC. He is a multi-year member of Forbes' Midas list (2006-2009). Prior to 2006, Parag Saxena led INVESCO Private Capital as CEO and Chancellor Capital where he led over 90 investments of which a third went public. Over his 28 year career, in investing, Parag's team has made over 300 investments including, Amgen, Celgene, Costco, Masimo, MetroPCS, PictureTel, Polycom, Staples, Starbucks



Grabbing the Cat by the Tail: Discrete Steps by a DNA Packaging Motor and the Inter-Subunit Coordination in a Ring-ATPase

Dr. Carlos Bustamante, University of California Berkeley

As part of their infection cycle, many viruses must package their newly replicated genomes inside a protein capsid to insure its proper transport and delivery to other host cells. Bacteriophage phi29 packages its 6.6 mm long double-stranded DNA into a 42 nm dia. x 54 nm high capsid using a multimeric ring motor that belongs to the ASCE (Additional Strand, Conserved E) superfamily of ATPases. A number of fundamental questions remain as to the coordination of the various subunits in these multimeric rings. The portal motor in phi29 is ideal to investigate these questions. Using optical tweezers, we find that this motor can work against loads of up to ~57 picoNewtons on average, making it one of the strongest molecular motors ever reported. Interestingly, the packaging rate decreases as the prohead is filled, indicating that an internal pressure builds up due to DNA compression.

The capsid pressure at the end of the packaging is ~6 MegaPascals, corresponding to an internal force of ~52 pN acting on the motor. We have identified where in the mechanochemical cycle the chemical energy of ATP is converted into mechanical work. Using ultra-high resolution optical tweezers, we have performed the first direct measurement of the step size of a translocating ring ATPase. What emerges is a surprising mechanism that involves a step size with a non-integer number of base pairs and that reveals an unexpected degree of coordination among the individual subunits that has not been proposed previously for a ring ATPase.



Chile's Maternity Leave Legislative Bill: An evidence based analysis from a public health perspective

Sylvia Guendelman, University of California Berkeley

On March 11, 2011 President Piñera submitted a maternity leave bill to the Chilean Congress which would extend postpartum maternity leave for working mothers from 12 weeks to 24 weeks and give mothers more flexibility in configuring their maternity leave arrangements, including transferring a portion of prenatal leave to the postpartum period or to their male partners.

In this session we will evaluate the pros and cons of this proposed legislation from a health standpoint, using evidence from our maternity leave studies conducted at UC Berkeley as well as from other US and international studies. In addition, we will consider what we can learn from this bill and how it could apply to improve current US maternity leave policies.



The GIGA: an initiative of the University of Liège for the economic redeployment of its Region.

Joseph Martial, University of Liège

The GIGA (interdisciplinary Cluster of Applied Geno-proteomics) is a unique structure based in the University of Liège (Belgium) which integrates a centre of excellence in academic research (550 scientists), eight technological platforms, a centre for continued training in biotechnology, an office of technology transfer and an area for private biotech companies located next to a biotech incubator, all of that oriented towards the new "omics" technologies. The GIGA is one of the best examples of a university initiative aiming at promoting the economic development of its region by first stimulating the excellence in its basic academic research and then adding all the ingredients which allow the technology transfer between the university and the private sector, the later being a multinational or a young spin-off.

Lectures | SOCIAL & POLITICAL SCIENCES



Protest and Political Discontent in Chile: Party Character and Education Policy in the Free-Market Era

Jennifer Pribble, University of Richmond

Throughout the course of 2011, Chile has witnessed increasingly intense social mobilization and growing discontent with the political process. This dissatisfaction seems to have taken politicians by surprise and both the governing center-right coalition and the opposition Concertación parties have been unable to effectively respond to the protests, thus underscoring several interesting questions: why, despite generally strong economic growth, declining poverty, and increased social mobility, have many Chileans grown unsatisfied with the political system? Moreover, what explains the inability of Chile's primary political parties to respond to this discontent? Finally, what does this standoff mean for Chilean democracy? This presentation seeks to answer these questions, providing an overview of how the character of Chile's political parties has influenced the design of social policy and the recent expansion of political conflict over the issue of education policy.



Chile from the Outside: A Comparativist's Perspective

Ruth Collier, University of California Berkeley

A personal account of Professor Collier's connections to Chile as a researcher and her expert view of long term political processes in Chile.



International Criminal Law by Other Means

Alexandra Huneeus, University of Wisconsin

The core crimes codified in international law – genocide, war crimes, and crimes against humanity – are notable not only because they “deeply shock the conscience of humanity,” but because they are uniquely resistant to national prosecution. Impunity has been the historical norm. With the Cold War’s end, the international community began to enforce accountability by stepping in and shouldering the task of prosecution itself. To this end it has participated in the creation of eight international and hybrid criminal tribunals, and invests hundreds of millions of dollars each year. Although the project of hands-on involvement by the international community in the prosecution of crime is still in the developmental stage, it has generated intense scholarly and political debate. Two criticisms of both the international and hybrid criminal tribunals are that they are not cost effective, and that their work is too removed from the lives of those most affected by the crimes they prosecute. The article proposes that there is an alternative form of international jurisdiction aimed at fostering prosecution of international crimes that has been overlooked by scholars but, in light of the constraints of the international and mixed criminal courts, holds great potential: the jurisdiction currently exercised by international human rights bodies of ordering and supervising national prosecutions. In particular, the Inter-American Court of Human Rights has made national prosecution of gross state-sponsored crimes a center-piece of its regional agenda. The article will argue that this Latin American innovation is an important contribution to the international effort to end impunity. It should be considered as a complement and, in certain situations, an alternative to the work of the current international criminal tribunals.



Macro-Contingent Unemployment Insurance

Elias Albagli, University of Southern California

I propose an unemployment insurance (UI) scheme contingent on aggregate unemployment dynamics. The insurance is triggered mechanically when unemployment rises consistently and fast for more than 3 months, or when it surpasses a critical value (9%). It covers 75% of previous net income, and lasts the minimum between 9 months and the period when aggregate unemployment falls below the critical level. The objective of the macro UI is coordinating the expectations of firms and households at a “high employment equilibrium” in the outset of recessions. The generous insurance should have significant effects in reducing the precautionary savings motive of households when economic conditions appear to deteriorate, stabilizing aggregate demand and reducing the incentives of firms to fire workers. The proposed scheme is thus strategic: a successful macro-contingent UI is one which is seldom triggered in practice. A conservative quantification of the costs using Chilean unemployment data from 1986-2011 suggests the measure can be financed by a 1% payroll tax (shared by employees and firms).



Explaining Multi-Institutional Transnational Mobilization: Tactical Shifts in the Campaign of the U’wa People in Colombia (1995-2005)

Pablo Rueda, University of California Berkeley

This paper uses the campaign of Colombia’s U’wa indigenous people against oil extraction in their land as a case study to understand how the interaction between the state, the law and the market help to shape the tactics and scale of activism. It analyzes how the campaign shifted away from law-centered tactics to “market tactics” this is, how it started using the tools available in the global market economy to prevent oil extraction from U’wa land.

The shift from legal to market tactics suggests the need to conceptualize social movement tactics as a complex, multidimensional phenomenon. This paper draws on the multi-institutional approach to social movements to show how tactics can be conceptualized as a three dimensional space.

Conceptualizing tactics in this way helps capture whether activists are engaging their antagonists directly or indirectly, the degree to which they are using non-institutional or institutional means to engage them, and the extent to which those means are used to coerce or persuade their targets. Conceptualizing social movement tactics along a three dimensional space helps us refine the categories through which we assess the role of economic, political, and legal factors in providing the resources, and opportunities for transnational activism.



Models for University Collaborations between Chile and California

Isaac D. Scherson, University of California Irvine
 From July 1, 2009 to June 30, 2011, I served as Study Center Director (SCD) of the University of California Education Abroad Program (UCEAP) in Santiago, Chile. My main function was to supervise and manage the administrative and academic aspects of the integration of UC EAP students into the two flagship Universities in Chile, namely the Universidad de Chile and the Pontificia Universidad Católica de Chile. Under UCEAP, UC Students come to Chile for one or two semesters and take courses in either one of these two partner Universities. Upon completion, courses are applied to the student's UC study program as regular UC courses. A reciprocity program allows U de Chile and PUC students to come to UC campuses to take courses using a similar arrangement. During my tenure as UCEAP SCD, I was exposed to the inner workings of many schools and departments as well as the culture of Chilean academic research laboratories. I visited and lectured in several Academic Institutions, public and private, and participated in research related to my field of expertise. As a result, I had an opportunity to devise different models of academic collaborations suitable for implementation between the University of California and Chilean Universities. In my presentation at Encuentros 2011, I shall introduce, describe and discuss the most promising of the models for academic collaborations and open discussion with the audience to obtain critical feedback and further promote such collaborations.



Establishing An International Research Program in Computer Science and Information Technology: Some Experiences

Leopoldo Bertossi, Carleton University, Canada
 Most of the Latin American countries are not playing a prominent role at the international level in research and innovation in computer science and information technology (CS&IT). In general, it is possible to find in them excellent students with a solid background. However, these strengths have not been leveraged in an attempt to increase research and innovation in those areas. On the other side, there are a few success stories in relation to research, particularly in Chile. In this presentation we discuss, at the light of personal perspectives and experiences in data management research, some of the problems a researcher in CS&IT has to confront when establishing a successful research program in Latin America, and also some of the factors behind the successful experiences.



Latin American influence in Chilean folk music

Horacio Salinas, Inti-Illimani Histórico
 Unlike most of Latin American countries, Chilean music is full of rhythmic, instrumental, melodic and harmonic influences from a variety of musical sources from other countries. This point makes us to ask ourselves: Is Chilean music unable to sustain itself only in our own traditions? The exposition will review Chilean folk music since the appearance of Violeta Parra in the musical scene, using a guitar to provide different examples.



A Chilean Writer in US Academia

Lina Meruane, New York University
 Being a Chilean writer in the US can be a serious challenge. While it is a fact that the Spanish-speaking population in this country continues to increase, it is also true that the educational system reinforces social pressures that contribute to the loss of the heritage language by the third generation. Readership in Spanish might be growing here, but can this growth be sustained? We must not lose sight of the fact that reading is not expanding elsewhere. Latin American literature is read and discussed in Spanish mainly at universities although, in recent years, academics have gravitated more and more towards theoretical digression moving away from literature itself. To add another layer of complexity, for a writer –and there are many Latin American y Chilean writers who have come to the US to pursue an academic career in literature- it has become increasingly difficult to get teaching jobs that allow them to continue to be writers. Teaching and research are full-time jobs, as intense and challenging as writing fiction. Writers are looked upon with some suspicion –how much of your time will be devoted to research, to teaching, to advising students? What is your passion? Thinking through my own experience during 11 years in the US, I will try to address all of these issues and explain how I have been able, so far, to meet the challenge.



Growth, Light, Emergence, and Structure

Mark P. Sarkisian, Skidmore, Owing & Merrill
 Are our cities ordered only by the streets that manage flows of vehicular and pedestrian movements where the areas in between are void and absent of life? Should our structures be restricted to regular load paths defined by elements set up on disciplined grids ignoring the spaces between - ignoring their contributions only because an order has been imposed upon us? Should our structures be designed as static objects or as objects that are in continuous motion; should we continue to think of our structures two-dimensionally instead of volumetrically?. Natural growth and the theory of emergence relate to light, space, and structure suggesting solutions that not only lead to structural efficiency but also to those that create a symbiotic relationship between structure, architecture, and building systems: design solutions that could be fluid - interactive and transient without permanence. What if structures in the future could be designed for basic sustained forces by using the material internally flowing in response to transient loading, increasing in density in areas where necessary? What if this behavior was three-dimensional, considering the volume of a structure rather than just its perimeter? What if the behavior emerged through a central controlling force of collective intelligence?



A North-South Nexus towards Sustainability

Giri Venkataramanan, University of Wisconsin
 In recent years, various global events have led to an introspection among the scholarly community to undertake a deep scrutiny of the long term viability of the industrialized human enterprise as we know it. While the global 'north' is suffering from an established culture of unsustainable consumption, the global 'south' is aspiring to grow out of a trap of subsistence and survival. In this context, a grasp of answers to the question of reaching a happy medium are found among scholarly encounters between the north and the south. This presentation will provide a case study of investigations in the field of electric 'microgrids' that illustrate enriching 'north-south' encounters to illustrate the potential of collaborative innovation in the quest for sustainability and development simultaneously. The idea of a 'living lab' or a 'sustainability field station' will be discussed as a vehicle to provide a design space for scholars of multiple to disciplines to engage in collaborative innovation.



Microengineering The Future of Sustainable Social Housing

Maria-Paz Gutierrez, University of California Berkeley
 Approximately one hundred million people live at the present in slums across the Americas. These enclaves are largely concentrated along coastlines in regions of energy and water stress characterized by inadequate waste management. The convergence of such conditions create a strong need for cost- and resource-efficient housing, particularly in urban areas of regions under high flood risk primarily consequent to climate change. Up to date most sustainable building innovation centers on "higher-end" construction. However, due to sheer quantity, affordable housing is one of the highest energy ex-penders in the world. Thus, affordable housing, particularly in highly populated and underdeveloped coastal or river basin regions, needs sustainable building innovation, to reduce energy and water consumption and to improve human comfort. The need is urgent: these coastal and river edge areas are flood-prone, and flooding is the single highest destructive natural agent of housing infrastructure in the Western Hemisphere. A key challenge in sustainable building innovation is the integration of cost-and resource-efficient building systems deployed to control multiple climatic flows. Yet, the convergence of architecture, science, and engineering is forging new frontiers of sustainable building technologies. At its base is the potential to streamline radically new multifunctional resource efficiency. This presentation will discuss a research project SHAPING Recycling and Thermal Control housing based on this new interdisciplinary model that implements microengineering principles at the scale of architecture. SHAPING Recycling and Thermal Control is a disaster relief housing prototype that tests the integration of solar based energy storage and greywater recycling for thermal and water management suitable for flood zones based on microoptics and microfluidics. The interdisciplinary research, supported by the NEXUS Fulbright Scholar Award for Applied Research, uses as a testbed Mehuin, a fisherman village in southern Chile. Mehuin has been recurrently affected both by inundations and water stress due to industrial contamination. It is hence chosen as a means to evaluate the applicability and concrete potential of solar-based integrated greywater reuse and thermal storage and control in an area with water stress and high energy demands. As a recent member of the OECD, Chile aims to provide leadership in the area of sustainable buildings, water and energy development. SHAPING Recycling and Thermal Control disaster relief housing prototype establishes a unique opportunity for transnational collaboration that involves academia, government, NGOs, and industry. Its aim is to ignite radically new models of resource efficiency applied to social housing in the Western Hemisphere.



Chilean Energy Challenge in the next Decade

Rodrigo Palma-Behnke, Universidad de Chile
 Energy security, efficiency, and sustainability are key challenges for Chile in the next decade. The high energy prices observed in the past five years under a critical point of view of the society about new energy projects, configure a complex scenario. This presentation offers an overview of the current situation and a comparison with other countries. Innovation in the energy field is presented as an important way to deal with the current situation. Examples of innovation initiatives are showed. Some specific strategies are also presented. Finally, the role of the new generation of Chilean researchers is discussed.

Workshop Nobel ideas



Douglas Osheroff



Charles Townes

A candid conversation with two distinguished Nobel Prize winners —Charles H. Townes, UC Berkeley (Nobel Prize in Physics 1964 "for fundamental work in the field of quantum electronics, which has led to the construction of oscillators and amplifiers based on the maser-laser principle") and Douglas D. Osheroff, Stanford University (Nobel Prize in Physics 1996 " for the discovery of superfluidity in helium-3") — about their passion for research; the significance of the Nobel Prize in general and in their lives; how they reached the ideas that awarded them the most important scientific prize in the world; how receiving the Nobel Prize changed their day-to-day lives; the impact of the Prize on their families and friends; their hobbies, their travels, their teaching, their dreams as children and as young adults, their doubts, their certainties, and their position as role models for younger generations... Jorge Ruffinelli (Professor of Literature and Film at Stanford University) will serve as the moderator, and will also ask them for their favorites films, and novels, and poems, and non-scientific essays...

Round Table "Haciendo Chile fuera de Chile"



Molly Pollack



Rolando Ortega



Jorge Rojas



Denise Saint-Jean



María José Gallardo

This activity is the only one in the program to be conducted in Spanish. Its goal is to open a dialogue through a roundtable discussion about a number of initiatives led by motivated Chileans who are looking to connect entrepreneurs, businessmen and Chilean researchers with the world. The panel is composed of, Molly Pollack (ChileGlobal, Fundación Chile Image), Jorge Rojas (UC Davis-Chile Initiative), María José Gallardo (Más Ciencia para Chile/ National Association of Postgraduate Researchers), Rolando Ortega (Consulate General of Chile in San Francisco), Denise Saint-Jean (Program for Advanced Human Capital Formation, CONICYT)

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Program at a glance

Time	Thursday - November 10th
15.00-18.00	Pre-Conference Registration
18.00-18.30	Welcome Remarks by Organizers
18.30-20.30	ROUND TABLE "HACIENDO CHILE FUERA DE CHILE"
20.30-22.00	Welcome Reception with Horacio Salinas
22.00-1.30	Pub Crawling in Berkeley

Time	Friday - November 11th
8.00-9.00	On-Site Registration
9.00-9.45	EVENT OPENING Welcome Remarks Hernan Cheyre
9.45-10.45	KEYNOTE SPEAKER Parag Saxena
10.45-11.30	Coffee Break
11.30-13.00	BIOMEDICINE Grabbing the Cat by the Tail: Discrete Steps by a DNA Packaging Motor and the Inter-Subunit Coordination in a Ring-ATPase - Carlos Bustamante Chile's Maternity Leave Legislative Bill: An evidence based analysis from a public health perspective - Sylvia Guendelman The GIGA: an initiative of the University of Liège for the economic redeployment of its Region - Joseph Martial
13.00-14.30	Lunch
14.30-16.00	SOCIAL & POLITICAL SCIENCES Chile from the Outside: A Comparativist's Perspective - Ruth Collier Protest and Political Discontent in Chile: Party Character and Education Policy in the Free-Market Era - Jennifer Pribble
16.00-16.45	Coffee Break
16.45-18.15	LAW & ECONOMICS International Criminal Law by Other Means - Alexandra Huneeus Explaining Multi-Institutional Transnational Mobilization: Tactical Shifts in the Campaign of the U'wa People in Colombia (1995-2005) - Pablo Rueda Macro-Contingent Unemployment Insurance - Elías Albagli
18.30-19.30	WORKSHOP "NOBEL IDEAS" Charles H. Townes, Douglas D. Osheroff
19.30-21.30	POSTER SESSION / COCKTAIL
21.30-1.30	CityTour "Night life in San Francisco"

Time	Saturday - November 12th
9.00-10.30	INFORMATION TECHNOLOGY Establishing An International Research Program in Computer Science and Information Technology: Some Experiences - Leopoldo Bertossi Models for University Collaborations between Chile and California - Isaac Scherson
10.30-11.15	Coffee Break / Poster Exhibition
11.15-12.45	ARTS, LITERATURE & ARCHITECTURE A Chilean Writer in US Academia - Lina Meruane Latin American influence in Chilean folk music - Horacio Salinas Growth, Light, Emergence, and Structure - Mark Sarkisian
12.45-14.15	Lunch
14.15-15.45	EXACT SCIENCES, ENGINEERING & ENERGY Chilean Energy Challenge in the next Decade - Rodrigo Palma A North-South Nexus towards Sustainability - Giri Venkataramanan Microengineering The Future of Sustainable Social Housing - María Paz Guitierrez
15.45-16.30	Coffee Break / Poster Exhibition
16.30-17.30	KEYNOTE SPEAKER W. James Nelson
18.00-19.00	FEATURED ADDRESS Michelle Bachelet
19.30-22.00	E2011 Conference Dinner
22.30-2.00	E2011 Conference Party

UNIVERSITY OF CALIFORNIA, BERKELEY CONFERENCE VOLUME

10-12 NOVEMBER 2011