ICIQ's Phase II Inaugurated

The President of the Generalitat de Catalunya, Mr. José Montilla, inaugurated ICIQ's Phase II on June 19th. The responsible for Research in the Catalan government, Mr. Josep Huguet, the Major of Tarragona, Mr. Josep Fèlix Ballesteros and the Chancellor of the URV, Dr. Francesc Xavier Grau also attended to the inauguration event.

ICIQ's Phase II will add a second building with a total built-up area of 4,800 m² divided among three floors. The completion of these works will increase the number of research laboratories by twelve, the number of research support laboratories by two and the number of technology laboratories by two. It will moreover provide a more strategic location to house the computational groups.

The new building's research laboratories will be devoted to the ICIQ's two main strategic objectives.



The President at the Unitat Mixta Esteve-ICIQ laboratory

To this end, one floor of the new building will form a part of the Science and Technology Park of Tarragona (Parc Científic i Tecnològic de Tarragona, or PCTT, in Catalan) and will be used to house a business incubator and mixed ICIQ/business units. A second floor will be used to house research groups from the ICIQ's Tenure-Track Programme for Researchers.

ICIQ's 5th Anniversary International Symposium

In order to commemorate the 5th anniversary of the ICIQ, an international Symposium took place at ICIQ's new Auditorium, on June 17th. With the aim of bringing to the audience the research carried out by prestigious researchers, four conferences were given by Professors Stephen L. Buchwald (MIT), Julius Rebek (The Scripps Research Institute), Michael Grätzel (École Polytechnique Fédérale de Lausanne) and Erick M. Ca-

rreira (ETH Zurich), all of them members of the ICIO's Scientific Advisory Board.



From left, Profs. Carreira, Pericàs, Grätzel, Rebek and Buchwald.





ICIQ's Quinquennial **Evaluation**

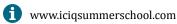
ICIQ's Advisory Board has met to evaluate ICIQ's scientific output and the work carried out by its Group Leaders since this institution started its activities five years ago. At the same time, an external evaluation committee was convened to examine and give advice on ICIQ's managing structure. In this respect, ICIQ area and unit managers delivered presentations on their area or unit to show how they work and the highlights of their area. The results of the assessment from both the scientific and the managing committees were positive and encouraging to continue working on the ICIQ project.

ICIQ Summer School

The 4th ICIQ Summer School, directed by Prof. Miguel Ángel Sierra and Prof. Antonio M. Echavarren, will take place from 20th to 24th July. This Summer School brings together graduate and postdoctoral researchers from all over the world to attend the plenary conferences delivered by some of the most prestigiouos chemists in the field of organometallic catalysis.



In this 4th edition, we have focused on synthetic applications of organometallic chemistry and stereoselectivity, and among the renowned researchers are Prof. Alexandre Alexakis (Université de Genève); Prof. Phil Baran (The Scripps Research Institute); Prof. Carsten Bolm (RWTH Aachen University); Prof. Juan Carlos Carretero (UAM); Prof. Christina Moberg (KTH School of Chemical Science and Engineering); Prof. Tomislav Rovis (Colorado Sate University); Prof. Jay S. Siegel (University of Zurich); Prof. Patrick Walsh (University of Pennsylvania); and Prof. M. Christina White (University of Illinois at Urbana-Champaign).



Briefs

Youth & Science: ICIQ participates in the program "Joves i Ciència" (Youth and Science) organized by Obra Social de Caixa Catalunya with the aim to encourage young students with Science. One of the activites included in this program consists on a Summer Science Stay oriented to 50 students finishing the secondary compulsory school (4th ESO) who would like to experience research. Besides, two students will have the opportunity to take part in research projects carried out in Prof. Palomares research group at ICIQ.

- Prof. Palomares Group: iciq.es/portal/355/default.aspx
- Joves i Ciència: obrasocial.caixacatalunya.es/osocial/idiomes/1/fitxers/obrasocial/E2C3/index.htm

New ICIQ/URV Master on Synthesis and Catalysis:

This master's degree, which starts the 2009/2010 academic year, is oriented to the design of chemical processes in industry and the laboratory, environmental and economic factors; the design of new methods of synthesis using catalysts and drawing up of applied research proposals, preparation, characterization, recovery, deactivation and regeneration of catalysts.

More info: urv.net/masters_oficials/en_catalisi.html

ICIQ Summer Fellowships: 12 undergraduate students have been selected to spend a three-month internship, in one of ICIQ's research groups during the months of July-September.



Prof. Javier de Mendoza, ICIQ Summer Fellowships programme director, welcomes the awarded candidates

This Fellowships Programme is bound to outstanding undergraduate students with a background in Chemistry, and the call opens in March.



f www.iciq.es





Crysforma: ICIQ's First Technology Development Platform



Crysforma's booth at Achema (Frankfurt)

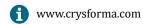
Crysforma is a technology transfer unit, belonging to the ICIQ (Institute of Chemical Research of Catalonia), oriented to offer complete scientific and technological support in the field of pharmaceutical solid state development. We provide services for the discovery, analysis and scale-up of polymorphs, salts and co-crystals of active pharmaceutical ingredients or intermediates.

Selecting the appropriate solid form of a pharmaceutical active compound assures optimum physical and chemical solid state properties: solubility, dissolution rate, hygroscopicity and stability. These properties can have a significant influence on the bioavailability of the final drug.



Crysforma offers:

- Comprehensive polymorphism, salt and co-crystal screenings of a drug substance.
- Scale-up of the optimal polymorph, salt or co-crystal.
- Determination of the relative stability of different polymorphic forms.
- Development of reliable procedures to prepare selected polymorphs.
- Development of analytical methods for polymorph quantification.
- Crystallization of compounds difficult to crystallize or formerly only known as amorphous solids.
- Development and scale-up of robust crystallization procedures.
- Resolution of chiral compounds by selective diastereomeric salt crystallization.
- Crystallyzations oriented to the preparation of single crystals and structure determination by single crystal X-ray diffraction.



Something More than Chemistry

With the aim to get closer to society and play an active role in scientific dissemination, ICIQ organizes a series of seminars entitled "Fem un parèntesi a la Química" (Let's take a break in Chemistry). Thus, with a look beyond Chemistry, we propose a series of six conferences which will be given throughout this year 2009. The first part of this series consisted of three seminars with which we will learn about the research work that is being carried out in Atapuerca (Prof. Eudald Carbonell, IPHES), the research about old Mediterranean territories (Prof. Josep Maria Palet, ICAC), and the future perspective of hydrocarbons (Prof. Mariano Marzo, UB). After Summer holidays, three

other seminars will be scheduled, the first of which (October 21st) will oversee climate change. These seminars are free and open to everybody.



Prof. Miquel A. Pericàs and Prof. Eudald Carbonell, director of IPHES, after his lecture on Atapuerca.





ICIQ: Five Years



- 1: ICIQ members (Dec.2003)
- 4: ICIQ group leaders (May 2009)
- 7: Wine tasting (2006 ICIQ Summer School)
- 2: ICIQ Oct. 2002 5: ICIQ's Children Party
- 8: ICIQ runners team (Nov.2008)

Jul. 16th:

- 3: ICIQ 2009
- 6: ICIQ's first anniversary
- 9: ICIQ soccer team (2009)

Agenda

Institute of Chemical Research of Catalonia (ICIQ) Av. Països Catalans 16 - 43007 Tarragona (Spain) Phone +34 977920200 - Fax +34 977920235

ICIQ Summer School

July 20-24, 2009

1 www.iciqsummerschool.com

Fòrum Tecnio (Tecnologia al servei de l'empresa)

21st July, Hotel Gallery (Barcelona)

www.acc10.cat/acc10/cat/formularis/inscripciotecnio.jsp

Trends in Nanotechnology (TNT 2009)

Barcelona, September 7-11, 2009 ICIQ, exhibitor in the Catalunya Macro Stand

www.tntconf.org/2009/index.php?conf=09

Seminaris Fem un Parèntesi a la Química

21st October, 6 p.m. ICIQ Auditorium Prof. Joan O. Grimalt

"La influència humana en el canvi climàtic"

ICIQ Seminar Program (July/September/October)

All seminars at 12p.m. in the ICIQ Auditorium

Prof. Douglas B. Grotjahn (San Diego State University)

"Proton Transfer and Hydrogen Bonding in Organometallic

Structure and Catalysis"

Sept. 4th: Prof. Edwin C. Constable (Universität Basel) "Molecule Build

Yourself! Self-Assembly, Self-Organisation and Self-Replication"

Sept. 10th: Prof. Benjamin List (Max-Plank Institut für Kohlenforschung)

"A Small Molecule with a Big Impact: Inspirations from Proline Catalysis"

Sept. 18th: Prof. Frank Glorius (Universität Münster) "N-Heterocyclic

Carbenes in Catalysis and Other Efficient Reactions"

Sept. 25th: Prof. Javier Pérez-Ramírez (ICIQ)

Oct. 9th: Prof. Troels Skrydstrup (Aarhus Universitet)

Oct. 16th: Dr. Arjan Kleij (ICIQ)

Oct. 23rd: Prof. José Luis Serrano (Universidad de Zaragoza)

Oct. 30th: Prof. Manfred T. Reetz (Max-Plank Institut für Kohlenforschung)