



El Profesor C. Oliver Kappe es Profesor de Química Orgánica y Director del centro Christian Doppler Laboratory for Microwave Chemistry (CDLMC) de la Universidad de Graz, Austria. Su grupo de investigación trabaja en el campo de las microondas desde 1998 y en presente su laboratorio dispone de los mejores equipos de microondas de los grandes fabricantes del mercado.

Resumen/Summary

High-speed microwave chemistry has attracted a considerable amount of attention in the past two decades with new and innovative applications in organic/peptide synthesis, polymer chemistry, material sciences, nanotechnology and biochemical processes continuously being reported in the literature. In many instances, the use of microwave dielectric heating has been shown to dramatically reduce processing times, increase product yields, and to enhance product purities or material properties compared to conventionally processed experiments.

This lecture will highlight the basic principles of microwave chemistry and will focus on applications in the field of organic/medicinal chemistry, high-throughput synthesis and the question of scale-up of microwave-assisted reactions.

Professor C. Oliver Kappe is Professor of Organic Chemistry and Director of the Christian Doppler Laboratory for Microwave Chemistry (CDLMC) at the University of Graz, Austria. His research group has been involved in the field of microwave chemistry since 1998 and today his laboratory features a variety of state-of-the-art dedicated microwave instruments from all major equipment manufacturers. His latest book "Practical Microwave Synthesis for Organic Chemists - Strategies, Instruments, and Protocols" (co-authored with D. Dallinger and S. S. Murphree) was published with Wiley-VCH in 2009 and is currently considered the standard reference work in the field. The co-author of ca 250 publications, his main research interests in the past have focused on multicomponent reactions, combinatorial chemistry and the synthesis of biologically active heterocycles. He is currently board member of the International Society of Heterocyclic Chemistry and The Society of Combinatorial Sciences. In addition he has been an Editor of the Journal QSAR and Combinatorial Sciences (Wiley-VCH) and has served/serves on the Editorial/Advisory Boards of the Journal of Combinatorial Chemistry (ACS), Molecular Diversity (Springer), ChemSusChem, Journal of Heterocyclic Chemistry (Wiley-VCH) and a number of other journals. For his "innovative work in microwave chemistry" he received the 2004 Prous Science Award from the European Federation for Medicinal Chemistry in addition to a number of other awards.

CONFERENCE

TÍTULO:

"MICROWAVES CHEMISTRY - STILL GOING STRONG AFTER 25 YEARS"

In this lecture the fascinating possibilities of driving chemical reactions by microwave energy will be highlighted with examples from the field of organic and medicinal chemistry, peptide synthesis, polymer and materials science

TITLE

CONFERENCIANTE:

Profesor
C. Oliver Kappe

Universidad de Graz Karl-Franzens
(Graz, Austria)



Professor
C. Oliver Kappe

Karl-Franzens-University Graz
(Graz, Austria)

SPEAKER

FECHA Y LUGAR: Sala de grados Manuel Medina, Campus de Rabanales
Día 5 de Mayo de 2011, 12:30h

Sala de grados Manuel Medina, Campus de Rabanales
5th of May, 2011 (12:30a.m.)

DATE AND PLACE



FACULTAD DE CIENCIAS
UNIVERSIDAD DE CÓRDOBA



Más información en:
www.uco.es/quimica2011



FACULTY OF SCIENCES
UNIVERSITY OF CÓRDOBA



Further information available at
www.uco.es/quimica2011