



Frontiers of Ultrafast Science in Chemistry, Biology, and Physics

Cancún, México, August 12-17, 2017

<http://femto13.unam.mx>

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The venue will be the Hotel Casa Magna Marriott Cancun Resort. FEMTO13 will bring together scientists from all over the world to present and discuss the most recent advances in femtoscience, including reaction dynamics; solvation phenomena; dynamics at interfaces; dynamics in biological systems; attosecond electron dynamics; and strong-field science and control of laser matter interactions; with contributions from both theory and experiment.

The Conference format will include invited lectures, contributed talks, and poster sessions. The participation of young researchers and students is particularly welcome.

### Important Dates:

- Early bird payment until May 1<sup>st</sup> 2017
- Abstract submission deadline May 5<sup>th</sup> 2017
- The 6th Ahmed Zewail Prize in Molecular Sciences will be awarded to Professor Michael Graetzel from the Ecole Polytechnique Fédérale de Lausanne, on August 16<sup>th</sup>.
- On August 12<sup>th</sup> there will be a Zewail Alumni Mini-Symposium, all are welcome.

## Invited Speakers:

### **Reaction dynamics and influence of conical intersections:**

Bern Kohler (Ohio State University)  
Regina DeVivie-Riedle (University of Muenchen)  
Elad Harel (Northwestern University)  
Spiridoula Matsika (Temple University)  
Takayoshi Kobayashi (U.of Electro-Communications)  
Carlos Crespo-Hernández (Case Western Reserve)

### **Solvation phenomena and hydrogen-bond dynamics:**

K.C. Hynes (University of Colorado Boulder)  
Mischa Bonn (Max-Planck Institute, Mainz)  
Andrew Orr-Ewing (University of Bristol)  
Daniel Crawford (Virginia Tech)  
Vasilios Stavros (Warwick University)  
Ehud Pines (Ben Gurion University)  
Omar F. Mohammed (KAUST)

### **Chemical dynamics at surfaces, interfaces, and nanostructures:**

Shoichi Yamaguchi (Saitama University)  
Tianquan Lian (Emory University)  
Thorsten Bernhardt (Universität Ulm)  
Peter Hamm (University of Zurich)  
Abderrazzak Douhal (U. de Castilla La Mancha)  
Tobias Brixner (Universität Würzburg)

### **Dynamics in Proteins, DNA, Polymers and Macromolecules:**

Steven Corcelli (University of Notre dame)  
Dongping Zhong (Ohio State University)

### **Primary processes in photobiology and photon energy capture**

Greg Scholes (Princeton University)  
Munira Khalil (University of Washington)  
Philip Anfinrud (NIH)  
Jim McCusker (Michigan State University)  
Greg Engel (University of Chicago)  
Donatas Zigmantas (Lund University)

### **Electron dynamics in atoms, molecules and solids:**

Albert Stolow (University of Ottawa)  
Robin Santra (DESY and University of Hamburg)  
Jens Biegert (ICFO)  
Dan Neumark (University of California Berkeley)  
Giulio Cerullo (Politecnico Di Milano)  
Sanford Ruhman (Hebrew University of Jerusalem)

### **Atomic and molecular structural dynamics resolved in space and time:**

Phil Bucksbaum (Stanford)  
Thomas Pfeifer (Max Plank, Heidelberg)  
Chong-Yu Ruan (Michigan State University)

### **Strong field science and control of laser-matter interactions:**

Margaret Murnane (University of Colorado Boulder)  
Marcus Motzkus (Universität Heidelberg)  
Itzik Ben-Itzhak (Kansas State University)

## Program:

# FEMTO13, 12-17 August 2017, Cancun, Mexico

### Program

	Saturday 12	Sunday 13	Monday 14	Tuesday 15	Wednesday 16	Thursday 17	Friday 18
8:45		Welcome	12	25	Introduction to Zewail price and Award Lecture	33	
9:25		1	13	26		34	
10:05		2	14	27	CPL Invited 1	35	
10:45		3	15	28	CPL Invited 2	36	
11:25		Coffee Break		29			
12:00		4	16	Tulum	CPL Invited 3	37	
12:40		5	17		CPL Invited 4	38	
13:20	Zewail Alumni Symposium	Lunch			Lunch		
14:35		6	18		30	39	
15:15		7	19		31	40	
15:55		8	20		32	41	
16:35		Coffee Break			Coffee Break		
17:10	Coffee Break	9	21, 22 (two short talks)				42
18:00		10	23, 24 (two short talks)		Poster Session		43
18:40		11	Poster Session				44
19:20				Dinner			

- 1 Reaction dynamics and influence of conical intersections
- 2 Solvation phenomena and hydrogen-bond dynamics
- 3 Chemical dynamics at surfaces, interfaces, and nanostructures
- 4 Dynamics in Proteins, DNA, Polymers and Macromolecules
- 5 Primary processes in photobiology and photon energy capture
- 6 Electron dynamics in atoms, molecules and solids
- 7 Atomic and molecular structural dynamics resolved in space and time
- 8 Strong field science and control of laser-matter interactions