#### **Conference Program**

## Tuesday 28<sup>th</sup> July

15:30 - 22:30Charted Buses leaving MCI at 15:30; 18:30 and 22:30MCI Airport18:00 - 22:00Registration & ReceptionBeach Art Museum

#### Wednesday 29<sup>th</sup> July

7:30 - 8:15	Breakfast	Alumni Center	
7:30 - 12:00	Registration Continues	Alumni Center	
Welcome	(Chair: C. D. Lin)	Alumni Center	
8:15 - 8:30	Dr. Dean Zollman, Head, Department of Physics		
	Dr. Kirk Schulz, President, Kansas State University		
Session 1	(Chair: F. Krausz)	Alumni Center	
8:30 - 9:05	R. Kienberger		
	<b>Overview:</b> Attosecond Physics – From Generation of Pulses to	o Applications on	
	Solids		
9:05 - 9:30	U. Keller		
	Laser Induced Tunneling in Less Than 12 Attoseconds: Instantaneous or Invalid		
	Concept?		
9:30 - 9:55	G. Sansone		
	Generation and Application of Attosecond Pulses for Time-Resolved		
	Investigations of Atoms and Molecules		
9:55 - 10:20	H. Mashiko		
	Temporal Characterization of Isolated Attosecond Pulse Generated With Double		
	Optical Gating		
10:20 - 10:50	Break		
Session 2	(Chair: M. Nisoli)	Alumni Center	
10:50 - 11:25	K. Midorikawa		
	<b>Overview</b> : Generation of Sub-keV Harmonics and Isolated A	ttosecond Pulses by	

an IR-OPA Source

11:25 - 11:50	S. Leone	
	Transient Absorption X-Ray Probing in the Attosecond Limit	t
11:50 - 12:15	K. Yamanouchi	
	Chemistry in Attoseconds: Ultrafast Hydrogen Migration in	Hydrocarbon
	Molecules in Intense Laser Fields	
12:15 - 12:40	C. Nam	
	Transform-Limited Attosecond Pulse Generation	
12:40 - 13:40	Lunch	Alumni Center
Session 3 (C	hair: Z. Chang)	Alumni Center
,	Industrial and Sponsor Session (Sp01-06)	And minine Center
15.50 15.50	J. Phys. B (13:50-14:00)	
	Fastlite (14:00-14:15)	
	Thales (14:15-14:30)	
	Coherent (14:30-14:45)	
	Femtolasers (14:45-15:00)	
	Photonics (15:00-15:15)	
	KM Labs (15:15-15:30)	
	Walk to Cardwell Hall	
Session 4		Cardwell Hall
15:40 - 18:00	JRM Lab Tours (Chair: B. Washburn)	
	15-min Oral Presentations 1: 01-05 (Chair: B. Esry)	Rm 102
	15-min Oral Presentations 2: 06-10 (Chair: T. Morishita)	Rm 145
16:15 – 17:30	Refreshment	1 <sup>st</sup> floor hallway
17:45 – 18:15	Meet in Cardwell Hall Parking Lot to board buses for	r Konza Prairie
Konza Outing	g (Chair: Uwe Thumm)	
18:15 - 19:30	Konza Prairie, Reception & BBQ	Konza Prairie
19:30 - 19:45	Research at Konza Prairie (Loretta Johnson-KSU Biology)	
19:45 - 20:45	Konza Guided Tour	
20:00 - 21:00	Konza Hike	
21:00 - 21:15	Bus returns to Hotels and Dormitory	

# Thursday 30<sup>th</sup> July

7:30 – 8:30	Breakfast	Alumni Center
Session 5	(Chair: D. Villeneuve)	Alumni Center
8:30 - 9:05	P. Corkum	
	<b>Overview</b> : Molecules and Attosecond Science	
9:05 - 9:30	P. Salieres	
	Imaging Orbitals From the Attosecond Emission	of Aligned Molecules
9:30 - 9:55	A.T. Le	
	Probing Fixed-in-Space Molecular Structures wit	th High Harmonic Generation
9:55 - 10:20	J. Marangos	C
	Optimising Fields for HHG	
10:20 – 10:50	) Break	
Session 6	(Chair: G. Paulus)	Alumni Center
10:50 - 11:25	J. Ye	
	<b>Overview:</b> Coherent Frequency Combs and Spect	troscopy – From Far IR to XUV
11:25 - 11:50	F. X. Kärtner	
	Octave Spanning Ti:Sapphire Lasers and Carrier	Envelope Phase Control
11:50 - 12:15	Z. Wei	
	Carrier Envelope Phase Stabilized Sub-5fs Laser f	or Attosecond Pulse Generation
12:15 - 12:40	A. Ozawa	
	Current Progress in XUV Frequency Combs	
	Walk to KSU Student Union	Student Union
12:40 – 13:40	) Lunch	Ballroom, 2 <sup>nd</sup> floor
13:40 - 17:20	Poster Session T	2 <sup>nd</sup> floor
	10-min Oral T1 (Chair: Feng He)	Big 12 room
	10-min Oral T2 (Chair: J. Hernandez)	Flint Hills room
16:00 – 17:20	) Refreshment	2 <sup>nd</sup> floor concourse
17:20 - 17:30	Return to Alumni Center	

Session 7	(Chair: R. Jones)	Alumni Center
17:30 - 18:05	Y. Silberberg	
	<b>Overview</b> : Quantum Control with Shaped Pulses	
18:05 - 18:30	J. Kuepper	
Manipulating the Motion of Large Molecules: Translation, Rotation, and		
	Conformer Selection	
18:30 - 18:55	D. Umstadter	
	Ultra-Relativistic Electron Acceleration by a High-Power Ult	trafast Laser
19:00 - 20:00	Dinner	Alumni Center
19:00 - 22:00	Bar Open	Alumni Center

20:00 – 22:00 Informal Discussion Poster Session continued Informal Discussion/Soccer game Alumni Center Student Union Stadium

## Friday 31<sup>st</sup> July

7:30 – 8:30	Breakfast	Alumni Center
Session 8	(Chair: A. Starace)	Alumni Center
8:30 - 9:05	A. L'Huillier	
	Overview: Attosecond Pulse Trains: Measurement, Control and	Application
9:05 - 9:30	M. Vrakking	
	Attosecond Time Resolved Electron Dynamics in Molecules	
9:30 - 9:55	P. Ranitovic	
	Control of Electron Dynamics in Light Systems Using Attosecond	l XUV and
	Femtosecond IR Radiation	
9:55 - 10:20	M. Gaarde	
	High Harmonics and Attosecond Pulses as Diagnostics of Intensi	ty Spikes in Laser
	Filamentation	

10:20 - 10:50

Break

Session 9	(Chair: J. Nees)	Alumni Center
10:50 - 11:25	D. Neely	
	Overview: Recent Advances in Ultra Intense Laser Plasma In	teractions
11:25 - 11:50	A. Staudte	
	Continuum Attosecond Electron Wavepackets	
11:50 - 12:15	K. Hatsagortsyan	
	Relativistic High-Order Harmonic and Short Pulse Generation	n
12:15 - 12:40	H. Milchberg	
	High Power Filament Propagation in Atmospheric Quantum V	Vakes
	Walk to Student Union	
12:40 - 13:40	) Lunch	Student Union
12:50 - 13:30	Atto Committee Meeting	Flint Hills room
13:40 - 17:20	Poster Session F	
14:00 - 15:00	10-min Oral F1 (Chair: McKenna)	Big 12 room
14:00 - 15:00	10-min Oral F2 (Chair: ZJ Chen)	Flint Hills room
16:00 – 17:20	) Refreshment	2 <sup>nd</sup> floor concourse
17:20 – 17:30	Return to Alumni Center	
Session 10	(Chair: D. Attwood)	Alumni Center
17:30 -18:05		
	<b>Overview</b> : Brilliant FEL Light: New Frontiers in AMO Physic	S
18:05 - 18:30		
	Multiphoton Physics in the X-Ray Domain	
18:30 - 18:55		
	Pushing the Temporal Resolution at an XUV-FEL: Tagging, St	reaking, Seeding

19:00 - 20:00	Dinner
19:00 - 22:00	Bar Open
20:00 - 22:00	Informal Discussion

Alumni Center

## Saturday 1<sup>st</sup> August

7:30 – 8:30	Breakfast	Alumni Center
Session 11	(Chair: L. Madsen)	Alumni Center
8:30 - 9:05	R. Li	
	Overview: Generation of Intense Few Cycle Laser Pulses for	Driving Attosecond
	High Harmonic Emission	
9:05 - 9:30	H. Kapteyn,	
	Coherent X-Rays From Ultrafast Lasers, and Applications –	Attosecond Science
	Meets Nonlinear Optics	
9:30 - 9:55	B. Fabre,	
	Phase-Resolved Attosecond Near-Threshold Photoionization	of Molecular
	Nitrogen	
9:55 - 10:20	L. DiMauro,	
	Intense Laser-Atom Physics in the Long Wavelength Limit	
10:20 - 10:50	Break	
Session 12		
10:50 - 11:25	M. Wolf (Chair: I. Ben-Itzhak)	Alumni Center
	<b>Overview</b> : Ultrafast Dynamics in Solids and at Interfaces	
11:25 - 11:50	D. Charalambidis	
	Intense Attosecond Pulses	
11:50 - 12:15	J. Rost	
	Simultaneous Excitation of Equivalent Electrons to Non-Equi	ilibrium with
	Attosecond Pulses	
12:15 - 12:40	S. Cundiff	
	Two-Dimensional Fourier Transform Spectroscopy	

#### Walk to Student Union

12:40 - 13:40

Lunch

13:40 – 18:20 Pos	ter Session S	Student Union
14:00 - 15:00 10-	min Oral Oral S1 (Chair: Chen, Shouyuan)	Big 12 Room
14:00 - 15:00 10-	min Oral Oral S2 (Chair: K. Singh)	Flint Hills Room
16:00 - 17:20	Refreshment	2 <sup>nd</sup> floor concourse
18:20 - 18:30	Remove Posters and return to Alumni Center	
18:30-21:30	Bar open	Alumni Center
19:00 - 21:30	Banquet (Chair: Z. Chang)	Alumni Center

## Sunday 2<sup>nd</sup> August

- 5:00 Bus to MCI—Have a good trip
- 10:00 Bus to MCI Have a good trip