Symposium Program

35th International Symposium on Free Radicals (ISFR 35) (September 15-20, 2019; Hangzhou, China)

Sunday, September 15

13:00-19:00 Arriving and Registration

19:00-21:00 **Reception**

Monday, September 16

08:20-08:30	Openii	ng and Award Cere	emony
Session I	Reacti	on Dynamics (I) (S	ession Chair: Piergiorgio Casavecchia)
08:30-09:10	S-1	Xingan Wang	High resolution crossed molecular beams experiments using the velocity map ion imaging technique
09:10-09:50	S-2	Astrid Bergeat	Isotope effects in ozone: the O + O ₂ exchange reaction
09:50-10:10	T-1	Hongwei Li	Roaming-mediated intersystem crossing in the exit channel of bimolecular reactions
10:10-10:40	Tea Br	eak (Conference P	Photo)
Session II	Reacti	on Dynamics (II) (Session Chair: Jim Jr-Min Lin)
Session II 10:40-11:20	Reaction S-3	on Dynamics (II) (Donghui Zhang	Session Chair: Jim Jr-Min Lin) Accurate potential energy surfaces and quantum dynamics for polyatomic chemical reactions
			Accurate potential energy surfaces and quantum dynamics for polyatomic
10:40-11:20	S-3	Donghui Zhang Piergiorgio	Accurate potential energy surfaces and quantum dynamics for polyatomic chemical reactions Reaction dynamics of O(3P) with 1-
10:40-11:20 11:20-11:40	S-3 T-2 T-3	Donghui Zhang Piergiorgio Casavecchia	Accurate potential energy surfaces and quantum dynamics for polyatomic chemical reactions Reaction dynamics of $O(^3P)$ with 1-butene and 1,2-butadiene Theoretical studies of the dynamics of the $O' + O_2 \rightarrow O'O + O$ and the $HO + HI \rightarrow H_2O$

Session III	Condensed Phase and Poster Session A (Session Chair: Gary Douberly)		
19:30-20:10	S-4	Toshinori Suzuki	Ultrafast photoelectron spectroscopy of solvated electrons
20:10-20:40 20:40-23:00		poster talk A session A	
Tuesday, Sep	tember	17	
Session IV	Photo	dissociation (Sessi	on Chair: Toshinori Suzuki)
08:30-09:10	S-5	Hanna Reisler	Two- and three-body fragmentation in the UV photodissociation of pyruvic acid
09:10-09:50 09:50-10:10	S-6 T-4	Kaijun Yuan Luis Banares	VUV photochemistry of water molecules Site-specific hydrogen-atom elimination in photoexcited ethyl radical
10:10-10:40	Tea Bı	eak	
Session V	Atmospheric Chemistry (I) (Session Chair: Jingsong Zhang))		
10:40-11:20	S-7	Dwayne Heard	Atmospheric chemistry of free radicals in China
11:20-11:40	T-5	Christa Fittschen	ROOOH: a source of interference for OH measurements in low NO environments?
11:40-12:00	T-6	Scott Kable	Photo-induced thermal reaction of aldehydes produces
12:00-18:00	Lunch	+ Free Time	
18:00-19:30	Dinne	r	
Session VI	Spectroscopy and Dynamics (I) (Session Chair: Lily Zu)		
19:30-20:10	S-8	Hongmei Su	Time-resolved spectroscopy studies of radical intermediates in DNA oxidative
20:10-20:30	T-7	Mattanjah S. de Vries	damage: Structure dependent pathways Competition between proton transfer and electron transfer mediates free radical formation in Art
20:30-20:50	T-8	Terry A. Miller	Calculation and visualization of vibronic eigenfunctions in the vicinity of conical intersections

intersections

20:50-21:10	T-9	Neil Reilly	Identifying an unknown isomer of C7H7 observed in jet-cooled hydrocarbon discharge
21:10-21:30	T-10	Ge Sun	Ultraviolet photodissociation of the thiomethoxy radical (CH $_3S)$ via the \widetilde{B}^2A_2 state

Wednesday, September 18

Session VII	Chemical Kinetics and Applications (Session Chair: Christa Fittschen)		
08:30-09:10	S-9	Craig Taatjes	Kinetics of radicals and reactive non-radicals
09:10-09:50	S-10	Gustavo Garcia	Synchrotron based photoelectron spectroscopy of radicals produced in a continuous flow-tube reactor
09:50-10:10	T-11	Hemberger Patrick	Unravelling reaction mechanisms in catalysis by detection of reactive intermediates
10:10-10:40	Tea Br	eak	
Session VIII		oscopy and Dynan on Chair: Lauri Hal	
Session VIII 10:40-11:20			Photochemistry and reaction dynamics of
	(Sessio	on Chair: Lauri Hal	lonen)
10:40-11:20	(Session S-11	on Chair: Lauri Hal H. Floyd Davis	Photochemistry and reaction dynamics of polyatomic free radicals Infrared spectroscopy of alkyl radicals in
10:40-11:20 11:20-11:40	(Session S-11 T-12 T-13	on Chair: Lauri Hal H. Floyd Davis Gary E. Douberly	Photochemistry and reaction dynamics of polyatomic free radicals Infrared spectroscopy of alkyl radicals in helium droplets and solid para-hydrogen Heterocumulenic radicals consisting of

Thursday, September 19

Session IX	Surfaces (Session Chair: H. Floyd Davis)		
08:30-09:10	S-12	Alec M. Wodtke	Vibrational energy pooling studied by mid-infrared laser induced fluorescence with a superconducting nanowire single photon detector
09:10-09:50	S-13	Michael Ashfold	The many roles of free radicals in diamond chemical vapor deposition
09:50-10:30	S-14	Tetsuya Hama	Cold surface chemistry of atoms and radicals on interstellar dust
10:30-11:00	Tea Br	eak	
Session X	Spectroscopy and Dynamics (III) (Session Chair: Samuel Abrash)		
11:00-11:40	S-15	Shuiming Hu	Fano resonance revealed in Doppler- free ro-vibrational spectroscopy of HD
11:40-12:00	T-14	Jens-Uwe Grabow	Fine and hyperfine structure of ¹⁷³ YbF and YbOH
12:00-18:00	Lunch	+ Free Time	
18:00-19:30	Dinner	•	
Session XI	Reaction Dynamics (III) and Poster Session B (Session Chair: Michael Ashfold)		
19:30-20:10	S-16	Hua Guo	Non-adiabatic dynamics in photodissociation
20:10-20:40		poster talk B	1-min poster talk B
20:40-23:00	Poster	session B	Poster session B

Friday, September 20

Session XII	Atmos	pheric Chemistry ((II) (Session Chair: Scott Kable)
08:30-09:10	S-17	Mitchio Okumura	Studies of atmospheric reactions by mid-infrared frequency comb spectroscopy
09:10-09:30	T-15	Jim Jr-Min Lin	Kinetics of Criegee intermediates - Synergy of water and ammonia
09:30-09:50 09:50-10:10	T-16 T-17	Jari Peltola Lavinia Constantina Onel	hydrogen bonding Reaction kinetic studies of the smallest stabilized Criegee intermediate: CH ₂ OO unimolecular decomposition and bimolecular reaction with formic acid as function of temperature and pressure Direct measurements of the Criegee intermediates CH ₂ OO and CH ₃ CHOO using time-resolved broadband UV absorption spectroscopy
10:10-10:40	Tea Br	eak (Best Poster A	wards)
10:10-10:40 Session XIII		•	wards) Session Chair: Luis Banares)
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Session XIII	Reaction	on Dynamics (IV) (Probing geometric phase effect in H + HD → H ₂ + D via energy dependent state specific DCS oscillations and rotational state distribution Ion-molecule charge-exchange reactions between Ar⁺ and small
Session XIII 10:40-11:00	Reaction T-18	on Dynamics (IV) (Chunlei Xiao	Probing geometric phase effect in H + HD → H ₂ + D via energy dependent state specific DCS oscillations and rotational state distribution Ion-molecule charge-exchange