31st Informal Symposium on Kinetics and Photochemical Processes in the Atmosphere

University of California, Riverside Wednesday, March 12, 2014

Sponsored by ALTI LLC

Chemical Physics Letters UCR Department of Chemistry

UCR Department of Environmental Sciences
UCR College of Natural and Agricultural Sciences (CNAS)

PROGRAM

7:30-8:20	Arrival, registration, coffee, pastries (Pentland Hills Bear Cave B107/C101) Poster set-up (Pentland Hills Fox Hole F111/G101)
8:20-8:30	Welcome and introductory remarks (Pentland Hills Bear Cave B107/C101)
8:30-9:15	Invited talk: Studies of the Carbon Cycle and Air Quality from Mountaintops and Satellites: Present and Future Stanley Sander, Jet Propulsion Laboratory
9:15-10:00	Invited talk: Gaseous Phase Kinetics Studies using the RR/DF/MS Technique: the Temperature and Pressure Dependence of OH + VOCs Rate Constants Zhuangjie Li, California State University, Fullerton
10:00-10:35	1-minute poster PowerPoint summaries for Poster Session I: M1-M29
10:35-12:00	Coffee break and Poster Session I (Pentland Hills Fox Hole F111/G101)
12:00-1:30	Lunch (sponsored buffet lunch, Aberdeen-Inverness Residential Restaurant)
1:30-2:15	Invited talk: Aqueous and Aerosol Photochemistry of Atmospheric Organic Compounds Sergey Nizkorodov, University of California, Irvine
2:15-3:00	Invited talk: Linking Organic Aerosol Properties to Cloud Condensation Nuclei Akua Asa-Awuku, University of California, Riverside
3:00-3:35	1-minute poster PowerPoint summaries for Poster Session II: A1-A28
3:35-5:00	Coffee break and Poster Session II (Pentland Hills Fox Hole F111/G101)
5:00-5:15	Concluding remarks (Pentland Hills Bear Cave B107/C101)
5:15-5:30	Poster removal (Pentland Hills Fox Hole F111/G101)

Poster No.	Last Name	First Name	Institution	Poster Title	Co-authors Co-authors
					Laxmi Ramya Addala, Catalina Olea, Srikar Middala,
					Kennedy Vu, Lucien Nana, Austen Scruggs, Nick Vizenor,
					Santanu Maitra, Max Stephenson, Michelle Boyce,
M01	Abdelhamid	Aroob	CSU-Fresno	reactions of isoprene hydroxynitrates	Geoffrey Tyndall, John Orlando and Alam Hasson
				Study of the Ozonolysis of Ethene, Propene,	
			University of California,	cis-2-Butene, and trans-2-Butene using	
N402	Campas Dinada	N 4 i s + 1 i	Riverside	1	Liming Wang Vingdi Liu, Chad Driest, and lingsong Thang
M02	Campos-Pineda	Mixtli		Cavity Ring-Down Spectroscopy	Liming Wang, Yingdi Liu, Chad Priest, and Jingsong Zhang
N402	Clarad	D	•	Estimating GHG Mixing Ratios with a Two	Jingsong Zhang, Sally Newman, Marc L. Fischer, and Ying
M03	Chad	Priest	Riverside	Level Sampling Tower in San Bernardino	K. Hsu
	6		, ,	A New Method for Measurement of Gas-	Adrian Gomez, Kristine D. Arquero, Veronique Perraud,
M04	Dawson	Matthew	Irvine	Phase Ammonia and Amines in Air	Barbara J. Finlayson-Pitts
				Computational Study of Glucose and	
				Asparagine to Produce Actylamide in the	
				Presence of Water: The First Transition	
M05	Dinh	Lauren	CSU-Fullerton		Watit Sontising, Fu-Ming Tao
				Kinetics and product yields of the acetyl	Linhan Shen, John D. Savee, Nathan C. Eddingsaas, Olver
			California Institute of	peroxy + HO2 radical reaction studied by	Welz, Craig A. Taatjes, David L. Osborn, Stanley P.
M06	Dodson	Leah	Technology	photoionization mass spectrometry	Sander, Mitchio Okumura
				Product yields from the reaction of isoprope	Lucas Algrim, Nick Vizenor, Geoffrey Tyndall, Alam S
M07	Green	laima	CSU-Fresno	with OH under low Nox conditions	
10107	Green	Jaime	C30-F1ESIIO	ALTI LLC CARDS-GID Air Pollution	Hasson
N400	Hananavia		ALTI LLC		
M08	Hargrove	James	California Institute of	Measurements Kinetic Studies of HO2 reactions with Peroxy	
1400		A.1.		·	For devials Colored Mitable Olympus Charles Conden
M09	Hui	Aileen	Technology	Radicals	Frederick Grieman, Mitchio Okumura, Stanley Sander
			Jet Propulsion	Direct Observation of OH from Simplest	K I D D Civil D C I .
M10	Liu	Yingdi	Laboratory	Crigee (CH ₂ OO)	Kyle D. Bayes, Stanley P. Sander
			University of California,	Ultraviolet Photodissociation Dynamics of	
M11	Lucas	Michael	Riverside		Yu Song, Jasmine Minor, Maria Alcaraz, Jingsong Zhang
			California Institute of	,	Thinh Bui, Priyanka Milinda Rupasinghe, Daniel Hogan,
M12	Lunny	Elizabeth	Technology	A-band in Support of Remote Sensing	Mitchio Okumura

			University of		
			Copenhagen &		
			_	Preliminary Investigation of SO ₂ Exhaust Gas	
M13	Lyster	Kjertan	Irvine		M.S. Johnson, A. Butcher
11113	Lyster	NGC TCC T	The state of the s	Bond Function Calculation for DNA Base	This someon, it butches
M14	Meewan	Ittipat	CSU-Fullerton		Fu-Ming Tao
		'		Direct Real-Time Observation of the	
			California Institute of	Isomerization of n-Butoxy and n-Butoxy-d9	
M15	Mertens	Laura	Technology	l · · · · · · · · · · · · · · · · · · ·	Mitchio Okuruma
			-		Srikar Middala, Kennedy Vu, Laxmi R Addala, Lucien
				Emissions of VOCs and Methane from a	Nana, Julie Steele, Austen Scruggs, Thomas Shelton
M16	Olea	Catalina	CSU-Fresno	Central California Dairy	Segun O Ogunjemiyo, Shawn Ashkan, Alam S Hasson
			University of California,	Cavity Enhanced Absorption Spectroscopy	
M17	Plett	Lydia	Riverside	of Nitrous Acid and Nitrogen Dioxide	David Medina, Jingsong Zhang
				Kinetics and Dynamics Investigations of OH	
M18	Roueintan	Masoud	CSU-Fullerton	Reaction with Naphthalene	Joeson Cho, Zhuangjie Li
				Infrared Kinetics Spectrscopy Studies on	
			California Institute of	HO2 Radicals from Criegee Intermediate	Yingdi Liu, Erin Delaria, Kyle Bayes, Stanly Sander,
M19	Shen	Linhan	Technology	(CH2OO) Reaction	Frederick Grieman, Mitchio Okumura
			California Institute of	Kinetics and Spectroscopy of Chlorine-	Leah G. Dodson, Kana Takematsu, Nathan C. Eddingsaas,
M20	Smarte	Matthew	Technology	Substitued Peroxy Radicals	Mitchio Okumura
				A Theoretical Study of HONO Formation	
M21	Sontising	Watit	CSU-Fullerton	from Humic Acid Segment with NO ₂	Abraham Shenhur, Nhan Nguyen, Fu-Ming Tao
			University of California,	HONO Vertical Gradients in Urban and Rural	Ross Cheung, Fedele Colosimo, Stephen Hurlock, Olga
M22	Tsai	Catalina	Los Angeles	Areas	Pikelnaya, Max Spolaor, Jochen Stutz
			University of California,	Intermediates in the Photooxidation of	
M23	Varner	Mychel	Irvine	Ammonia	Jonathon D. Raff, R. Benny Gerber
					Xinze Peng, Chia-Li Chen, Derek Price, Shaokai Gao, Mary
			University of California,	Real time gas-phase analysis by selective ion	Kacarab, Kelly McCoy, Igor Irianto, David R. Cocker III,
M24	Vizenor	Ashley	Riverside	flow tube mass spectrometry	Akua Asa-Awuku
				Thermodynamically Stable Seed Clusters of	
M25	Weber	Kevin	CSU-Fullerton	Oxalic Acid, Ammonia, and Water	

				Remote Sensing of Trend and Seasonal	
				Variability of Greenhouse Gas Emissions	
			Jet Propulsion	from the Los Angeles Basin Using an FTS on	Dejian Fu, Thomas Pongetti, Sally Newman, Yuk L. Yung,
M26	Wong	Clare	Laboratory	Mount Wilson	Stanley Sander
				An ab initio Computational Study of	
				Dehydrated Schiff Base of Glyoxal as a	
				Precursor in the Formation of Carcinogenic	
M27	Wu	Jinhong	CSU-Fullerton	Acrylamide	Kevin Tong, Watit Sontising, Fu-Ming Tao
				Ion-Molecule Reaction Dynamics Studied by	
			University of California,	Electronic Structure Theory Calculations and	
M28	Zoerb	Matthew	San Diego	Chemical Ionization Mass Spectrometry	Michelle Kim, Timothy H. Bertram
				Mass spectrometry studies of Criegee	
			Jet Propulsion	intermediates in the ozonolysis reactions of	
M29	Liu	Yingdi	Laboratory	alkenes	Jingsong Zhang, Amir Golan and Musahid Ahmed

Poster No.	Last Name	First Name	Institution	Poster Title	Co-authors Co-authors
				Heterogeneous Reaction of	
				Methanesulfonic Acid with Trimethylamine	
			University of California,	•	Noriko Nishino, Matthew L. Dawson, Barbara J. Finlayson-
A01	Arquero	Kristine	Irvine	Atmospheric Measurements	Pitts
				Concentrations of selected organics and	Sowmya Tummala , Kennedy- Kiet T. Vu, Annabelle
				reactive oxygen species generation from	Lolinco, Kylie Markarian, Clarissa Nino, Robyn Verhalen,
A02	Baroi	James	CSU-Fresno	PM2.5 extracts	Catalina Olea, Alam S. Hasson
				Fundamental Studies of the Reactions of	
			California Institute of	Hydroxyl Radicals with Organic Molecules at	
A03	Barraza	Kevin	Technology	the Air-Water Interface	J.L. Beauchamp
			University of California,	Peroxide Content of α-Pinene SOA as a	
A04	Blair	Sandra	Irvine	Function of UV Exposure	Scott A. Epstein, Sergey A. Nizkorodov
			Scripps Institution of		
A05	Chang	Kylee	Oceanography	Organic Aerosols at Alert, Canada	Lynn Russell
					Mychel Varner, Matthew L. Dawson, Andrew Martinez,
			University of California,	Particles and Their Precursors: From	Michael J. Ezell, Kristine D. Arquero, R. Benny Gerber,
A06	Chen	Haihan	Irvine	Angstrom to Regional Scales	Donald Dabdub, Barbara J. Finlayson-Pitts
				Total organic aerosols and trace polycyclic	
				aromatic hydrocarbon measurements from	
				on-line aerosol mass sprectrometry and off-	
			University of California,	line gas chromatography/mass	
A07	Dingle	Justin	Riverside	spectrometry	Kennedy Vu, Roya Bahreini
			University of California,	Measuring Uptake Coefficients for Gases on	
A08	Fairhurst	Michelle	Irvine	Model Secondary Organic Aerosol	Carla Kidd, Barbara J. Finlayson-Pitts
				Molecular Transformations Accompanying	
				the Aging of Laboratory Secondary Organic	
A09	Hall	Wiley	USDA	Aerosol	M. Ross Pennington, Murray V. Johnston
				The Optical Properties and Chemical	Lydia Jahl, M. Cristina Facchini, Stefania Gilardoni, Marco
A10	Hawkins	Lelia	Harvey Mudd College	Composition of Po Valley Fog Water	Paglione
			University of California,	Photochemistry in Atmospheric Condensed	
A11	Hinks	Mallory	Irvine	Phases: Exploring the Effects of Matrix	Hanna Lignell, Sergey A. Nizkorodov

I				Chamical Ovidation of Light Absorbing	
	11.5.1		CCI Full-ut	Chemical Oxidation of Light-Absorbing	Davila IV Hardaan
A12	Hofstra	Julie	CSU-Fullerton	Components in Aerosol	Paula K. Hudson
				Particle Bounce and Phase of Secondary	
			University of California,	Organic Aerosol from Ozonolysis of $lpha$ -	Veronique Perraud, Lisa M. Wingen, Barbara J. Finalyson-
A13	Kidd	Carla	Irvine	Pinene as a Function of Relative Humidity	Pitts
				Generation of ROS by ambient particulate	
			University of California,	matter: identification of possible active	
A14	Kuang	Michelle	Los Angeles	components responsible for this generation	
			University of California,	Photobleaching and Molecular Level	Paige Aiona, Julia Laskin, Alexander Laskin, Sergey A.
A15	Lee	Hyun Ji (Julie)	Irvine	Analysis of Brown Carbon Aerosols	Nizkorodov
				Study of Organic Nitrate Partitioning Into	
			University of California,	Secondary Organic Aerosol generated from	
A16	Loop	Bryce	Irvine	Ozonolysis of α-Pinene	Veronique Perraud, Barbara J. Finlayson-Pitts
	•	,		Mass Spectrometry and Brown Carbon	, , , , , , , , , , , , , , , , , , , ,
A17	Muller	Katherine	Harvey Mudd College	Absorptivity of Atmospheric Nitrophenols	Lelia Hawkins
			, ,	Hygroscopic Growth of Aqueous Phase	
				Photo-Oxidized Succinic Acid: A Comparison	
A18	Northen	Trent	CSU-Fullerton	to the ZSR Model	Aaron Ninokawa, Minh Ho, Paula K. Hudson
7120	1401 (11011	T. C.I.C			
			University of California,	Thermodynamics of alkali metal and halide	
A19	Parry	Krista	Irvine	ion adsorption to the air-water interface	Abraham C. Stern, Douglas J. Tobias
7113	Татту	Krista	II VIII C	New Particle Formation and Growth During	Abraham C. Stern, Bouglas 3. Tobias
			University of California,	Alkene Ozonolysis: the Role of Criegee	Lisa Wingen, Veronique Perraud, Barbara J. Finlayson-
A20	Zhao	Yue	Irvine	Intermediates	Pitts
AZU	21180	Tue	II VIIIC	A Systematic Evaluation of the Extent of	Titts
				Photochemical Processing in Different Types	
			University of California,	of Secondary Organic Aerosols in the	Hyun Ji (Julie) Lee, Scott A. Epstein, Julia Laskin, Sergey
A 2.1	Domonoslav	Dian	,	Aqueous Phase	A. Nizkorodov
A21	Romonosky	Dian	Irvine	·	A. NIZKUTUUUV
422	Carakaa	IZ a v dia	Scripps Institution of	Affect of Organic Aerosols on Cloud Droplet	Lyen Dynas II
A22	Sanchez	Kevin	Oceanography	Size	Lynn Russell
				Assembly of marine aggregates and their	Kathryn Zimmerman, Olivia S. Ryder, Nicole Campbell,
			University of California,		Norman Olson, Timothy Baker, Nathan Gianneschi,
A23	Schill	Steven	San Diego	sea-spray aerosol	Timothy H. Bertram

	I				
				Sulfur and Oxygen Isotope Anomaly in	
				Sulfate Aerosol and its Implications for	
			University of California,	Understanding the Present and	M. Abaunzal, T. Jackson, J. McCabel, J. Savarino, M.H.
A24	Shaheen	Robina	San Diego	Paleoatmosphere	Thiemens
				Concentrations of selected organics and	James Baroi , Kennedy- Kiet T. Vu, Annabelle Lolinco,
				reactive oxygen species generation from	Kylie Markarian, Clarissa Nino, Robyn Verhalen, Catalina
A25	Tummala	Sowmya	CSU-Fresno	PM2.5 extracts	Olea, Alam S. Hasson
			University of California,	Flow Tube Experiments: Understanding	
A26	Vu	Diep	Riverside	Aerosol Mixing States	Shaokai Gao, Akua Asa-Awuku
				Summertime measurements of ambient	
			University of California,	aerosol extinction and composition in Mira	
A27	Vu	Kennedy	Riverside	Loma, California	Justin Dingle, Roya Bahreini
				Direct measurement of the impact of the	O.S. Ryder, A. Guzman Corrigan, J.M. Russell, L.M.
				reactive uptake of ammonia and	Budisulistiorini, S.H. Surratt, J.D. Zhang, X. Cappa, C.D.
			University of California,	alkylamines on the CCN activity of ambient	Bairai, S.T. Hicks, W.R. Renfro, J. Brady, J.B. Schill, T.H.S.
A28	Zimmerman	Kathryn	San Diego	aerosol sampled during SOAS 2013	Bertram