SPEAKERS AND EVENTS	TIME	TITLES
	Day 1-S	unday, March 25, 2018
Naohiro Yoshida, Huiming Bao,	8:30 -8:45	Opening remark
LSU Dean or President	8:45-8:55	Welcometo LSU and Louisiana
<u>Dmitri Babikov</u>	9:00-9:25	Several Levels of Theory for Description of Mass- Independent Fractionation of Oxygen Isotopes in the Ozone-Forming Reaction
Lambert Baraut-Guinet, <u>Fran œis Robert</u> , Pierre Cartigny, Peter Reinhardt	9:25-9:50	Unusual combination of mass dependent and mass independent fractionation processes in ozone
Huiming Bao, Haiyang Luo, Yongbo Peng, and Xiaobin Cao	9:50-10:15	Non-mass-dependent isotope fractionation produced by macroscopic mass transfer processes
Morning Pastry-Coffee	-Tea break	10:15-10:45
Naohiro Yoshida	10:45-11:05	Overview of "Handbook of Stable Isotopologues"
Xuefang Li, Yun Liu	11:05-11:30	The theory of diffusional isotope effects in solids
Douglas Rumble III, Pei- Ling Wang, Hung Lin, Yueh-Ting Lin, Tzu- Hsuan Tu	11:30-11:55	Clumped Isotopologues of Methane: Resolved Measurements of 13CDH3 and 12CD2H2 from a Taiwan Mud Volcano
Huanting Hu, Laurence Y. Yeung, Jeanine L. Ash, Nick Rollins, William M. Berelson	11:35-12:20	Constraints on marine oxygen cycling and respiration from five O_2 isotopologues (³² O_2 , ³³ O_2 , ³⁴ O_2 , ³⁵ O_2 , and ³⁶ O_2)
Lunch and bre	ak	12:20-14:00
Mang Lin, Xiaolin Zhang, Menghan Li, Yilun Xu, Zhisheng Zhang, Jun Tao,	14:00-14:25	A five-sulfur-isotope (³² S, ³³ S, ³⁴ S, ³⁵ S, and ³⁶ S) approach to decode stable sulfur isotopic anomalies in present-day atmospheric sulfates:
Binbin Su, Lanzhong Liu, Yanan Shen and Mark H. Thiemens	(left blank)	Two distinct processes and implications for the Archean record
<u>Jeehyun Yang,</u> Alexander Hull, Robert W. Field, Shuhei Ono	14:25-14:50	Mass Independent Sulfur Isotope Fractionation during Carbonyl Sulfide Photolysis
Lei Geng, Joel Savarino, Pierre Cartigny	14:50-15:15	Sulfur isotope systematics of sulfate produced by UV and OH oxidations in a large atmospheric environmental chamber
Afternoon Coffee-Tea break		15:15-15:45
Jingyuan Shao, Pengzhen He, Qianjie Chen, Yuxuan Wang, Lin Zhang, Zhouqing Xie and <u>Becky</u> <u>Alexander</u>	15:45-16:10	Heterogeneous Sulfate Aerosol Formation Mechanisms in Chinese Haze Events: Air Quality Model Assessment using Observations of Sulfate Δ^{17} O in Beijing
Lianfang Wei, <u>Huiming</u>	16:10-16:35	A changing sulfate formation pathway constrained by

Dec Zife Wene		aulfur and triple anyon isotone compositions of	
<u>Bao</u> , Zifa Wang, Bingging Fu		sulfur and triple oxygen isotope compositions of aerosol sulfate	
Pingqing Fu			
<u>S.O. Danileache</u> , M. Shinkai, E. Simoncini, T.	16.25 17.00	The origin of stratospheric sulfur aerosols studied by a	
	16:35-17:00	1D atmospheric isotopic model	
Grassi		What is famore the is an a data within the trial array of	
David Johnston, Anna Waldeck	17:00-17:25	What information is encoded within the triple oxygen	
waldeck		isotope composition of marine sulfate?	
Reception	<u> </u>	18:00-20:00	
Кесерион		10.00-20.00	
	Day 2 -M	Ionday, March 26, 2018	
Thomas R öckmann,		High precision isotope analysis of 17 O in CO ₂ on	
Magdalena Hofmann,	0.20 0.55	oxygen ion fragments using the MAT 253 Ultra	
Dipayan Paul, Getachew	8:30-8:55	instrument	
Adnew, Elena Popa			
Mao-Chang Liang, Sally	0.55.0.20	Triple oxygen isotope analysis of tropospheric CO_2 on	
Newman, Amzad Laskar	8:55-9:20	the two sides of the Pacific Ocean	
Jordan Gibbons, Zachary		Calcite-water isotopic equilibrium fractionation:	
Sharp, Uwe Brand, and	9:20-9:45	natural vs. synthetic samples	
Tyler B. Coplen			
Siting Zhang, Yun Liu	0.45 10.10	Triple oxygen isotope fractionation during phosphoric	
	9:45-10:10	acid digestion of carbonates	
Morning Pastry-Coffee	-Tea break	10:10-10:40	
Vun Liu Vining Zhang		Small Δ^{17} O anomalies caused by Diagonal Born-	
	10:40-11:05	Oppenheimer Correction (DBOC)	
Martin F Miller		Oxygen isotope ratios in snow and ice cores from the	
	11:05-11:30	coldest regions on Earth – more than a temperature	
		proxy	
Chen Zhu, Yilun Zhang,		Silicon isotope doping method to measure silicate	
Augustus Scheafer,		mineral reaction rates	
Donald Rimstidt,	11:30-11:55		
Honglin Yuan, and			
Rudolf Bastian Georg			
UlrikeWacker, Nicholas		High resolution sector IRMS: extending scientific	
Lloyd, Johannes	11:55-12:15	boundaries	
Schwieters			
Lunch and break		12:15-14:00	
Maria Elena Popa,		H2 clumped isotope measurements at natural isotopic	
Dipayan Paul, Christof	14:00-14:25	abundances with the MAT 253 ULTRA instrument	
Janssen, Thomas	14.00-14:23		
Röckmann			
Ivan Prokhorov, Tobias		Precise, direct, simultaneous spectroscopic	
Kluge, and Christof	14:25-14:50	measurements of rare and doubly-substituted CO2	
Janssen		isotopologues	
Amzad Hussain Laskar,		High precision measurements of clumped isotopes in	
Getachew A. Andew,	14:50-15:15	atmospheric O2 using MAT 253 ULTRA	
Thomas R öckmann			
Xiaobin Cao, Huiming	15:15-15:40	The real difference between biotic and abiotic	

Bao, and Yongbo Peng		methane			
Afternoon Coffee-Te	ea break	15:40-16:10			
Vingkui Xu and Dan		Mg isotope fractionation in basaltic melt under			
Zhu	16:10-16:30	thermal gradient in natural settings			
Liping Qin and Y. Zhang	16:30-16:50	Molybdenum isotope fractionation during evaporation			
		induced by thermal metamorphism of chondrites			
Jim Lyons	16:50-17:10	Pressure broadening in SO2 and implications for S- MIF			
Yining Zhang, Yun Liu	17:10-17:30	Equilibrium isotope fractionation theory of gaseous molecules under supercold conditions			
Din	nner (no confer	ence arrangement; on your own)			
	Day 3 -T	uesday, March 27, 2018			
Shohei Hattori, Asuka	<u>_</u>	Reconstruction of nitrogen isotopic composition of			
Tsuruta, Yoshinori		nitrate preserved in high-accumulation dome at South			
Iizuka, Koji Fujita, Ryu	8:30-8:50	East Greenland			
Uemura, Sumito	8.30-8.30				
Matoba, Naohiro					
Yoshida					
<u>S.C. Clark</u> , A.		Arctic Sea Ice: investigating the origin of nitrate using			
Mastorakis, J. Granger,	8:50-9:10	$\delta 15N$, $\delta 18O$ and $\Delta 17O$			
A. Aguilar-Islas and M. G. Hastings					
Sakae Toyoda, Osamu		Origin of nitrous oxide dissolved in deep ocean water			
Yoshida, Hiroaki		deduced from concentration and isotopocule analyses			
Yamagishi, Ayako Fujii,	9:10-9:30	active in our concentration and isotopocale analyses			
Naohiro Yoshida,					
Syuichi Watanabe					
Jiubin Chen, Hongming		Possible mechanisms triggering the mass-independent			
Cai, Shengliu Yuan,	9:45-10:10	fractionation of even mercury isotopes			
Zhengrong Wang, Jean-	9.45-10.10				
Louis Birck					
Morning Pastry-Coffee-Tea break		10:10-10:25			
<u>Yuyang He</u> , Huiming Bao, Shanggui Gong	10:25-10:45	Determining high-dimensional isotope parameters θ and Z in systems with mass transfer			
Weiguo Liu		Comparison of hydrogen isotopic fractionation of leaf			
	10:45-11:05	wax from terrestrial monocotyledonous and			
	10110 11100	dicotyledonous plants			
Wendell W. Walters,		"Fingerprinting" Vehicle Derived Ammonia Utilizing			
Nadia Colombi, and	11:05-11:25	Nitrogen Stable Isotopes			
Meredith G. Hastings					
Swamp tour		11:30-16:30			
Crawfish boiler party		17:00-20:00			
Day 4 -Wednesday, March 28, 2018					
Meredith G. Hastings,		Investigating the N and O isotopic composition of			
Wendell W. Walters,	8:30-8:55	NO _x			
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Jiajue Chai, David M.		
Miller		
Jiajue Chai, David J. Miller, Felix Guo, Curtis Dell, Heather Karsten and Meredith G. Hastings	8:55-9:20	Investigating atmospheric nitrous acid (HONO) emissions from various sources via nitrogen and oxygen isotopic composition
Shohei Hattori, Atsushi Matsuki, Qi Liu, Kazuki Kamezaki, Naohiro Yoshida	9:20-9:45	Seasonal variations of triple oxygen isotopes of atmospheric nitrate and sulfate at Noto Peninsula, Japan
Morning Pastry-Coffee	-Tea break	9:45-10:15
Hao Xie, Camilo Ponton, Michael J Formolo, Michael Lawson, Brian K Peterson, Max K Lloyd, Alex Sessions, John M Eiler	10:15-10:40	Position-specific hydrogen isotope equilibria of propane
Alexis Gilbert, Thomas Giunta, Florin Musat, Barbara Sherwood Lollar, Keita Yamada, Naohiro Yoshida, and Yuichiro Ueno	10:40-11:05	Bacterial oxidation of propane in Southern Ontario revealed by positionspecific isotope analyses
<u>Maxime Julien</u> , Alexis Gilbert, Keita Yamada, Mayuko Nakagawa, Naohiro Yoshida	11:05-11:30	Deconvolution of isotopic fractionation factors associated with lipid biosynthesis
<u>Changjie Liu</u> , Greg P. Mcgovern, Peng Liu, Heng Zhao, Toti Larson, Juske Horita	11:30-11:55	Position-Specific Isotope Compositions of Propane from Natural Gases by Quantitative NMR
Lunch and bre	ak	11:55-14:00
V. Joubert, <u>G.S.</u> <u>Remaud</u> , S. Akoka, M. Grand, V. Silvestre, R.J. Robins	14:00-14:25	Latest developments and applications of Position- Specific Isotope Analysis by NMR spectrometry
Joshua A Haslun, Nathaniel E. Ostrom, Clarisse Finders, Eric L. Hegg, Peggy H. Ostrom	14:25-14:50	New Insights into Isotopic Discrimination during N ₂ O production by Bacteria
Krist ýna Kantnerov á, B da Tuzson, Lukas Emmenegger, Stefano M. Bernasconi & Joachim Mohn	14:50-15:15	Site-specific analysis of N ₂ O clumped isotopic species by laser spectroscopy
(to be added)		
(to be added)		

	POSTERS
John W. Robinson, Joë Savarino, Lei Geng and <u>Becky Alexander</u>	Nitrate preservation and recycling on the West Antarctic Ice Sheet over major climate transitions from observations of ice-core $\delta^{15}N(NO_3)$ and a snow chemistry model
Shanggui Gong, Yongbo Peng, Huiming Bao, Dong Feng, Peter Crockford, Harry H Roberts, Duofu Chen	The 33 θ values for the process of sulfate reduction via anaerobic oxidation of methane
<u>Maxime Julien</u> , Mark Goldman, Naohiro Yoshida, Alexis Gilbert Kushi Kudo, Keita Yamada, Sakae	Reaction Mechanism Generator as a tool for position- specific isotope measurement by on-line pyrolysis Source of dissolved methane in the western Arctic
Toyoda, Naohiro Yoshida, Daisuke Sasano, Naohiro Kosugi, Masao Ishii, Hisayuki Yoshikawa, Akihiko Murata, Hiroshi Uchida, Shigeto Nishino	Ocean
<u>Xiangzhong Li</u> , Weiguo Liu, Carmala N. Garzione	Clumped isotope composition of Recent-ostracods from lakes on the northeastern Qinghai-Tibet Plateau China
Zhengjie Li, Meredith G. Hastings, Wendell W. Walters, Yunting Fang	Seasonal variations of nitrogen and oxygen isotopic ratios of nitrate from precipitation in a Northeastern Chinese polluted mega city
Tong Fang, <u>Yun Liu</u>	Nuclear volume isotope effects on Hf-W dating and ¹⁸² W heterogeneity in mantle
<u>Xie Luhua</u> , Ye Feng, Wang Zhibing, Wei Gangjian	Multiple stable isotopes constrainsulfate and water changes across salinity gradient in Pearl RiverEstuary China
Martin F Miller	Standardizing the reporting of high precision Δ^{17} O values of silicate rocks and minerals
<u>Joachim Mohn</u> , Sakae Toyoda, Heiko Moossen, Christina Biasi, Tracey Jacksier, Sarah Eggleston, Longfei Yu, Naohiro Yoshida and Paul Brewer	Development of new N2O reference materials for $\delta 15N$, $\delta 18O$ and 15N site preference within the EMPIR project SIRS
<u>Fran œis Robert</u> , Adriana Gonzalez, R émi Duhamel, Sylvie Derenne	Nitrogen isotopic fractionation in hydrocarbon plasm
Dong, Zhang	The effects of purified methods on ¹⁸ O determination for standard barite and natural barites precipitated from different water samples