Ninth Biennial HITRAN Conference Harvard-Smithsonian Center for Astrophysics, Cambridge MA					
Day 1, Monday 26 June 2006					
Session	Presenter	Title (click on title for access to presentation)			
Welcome	Stephen S. Murray, Deputy Director for Science	Keynote Address			
Session 1 Laboratory Spectroscopy	L.S. Rothman	The Quest for Consistency and Accuracy of SpectroscopicParameters in HITRAN: Bridge between Archive andApplication			
	J. Orphal	Diode- and difference-frequency laser studies of atmospheric molecules in the near-and mid-infrared: H <sub>2</sub> O, NH <sub>3</sub> and NO <sub>2</sub>			
	G. Wagner	Water Pressure Broadening: A Never-ending Story			
	A. Barbe	Analysis of High-resolution Infrared CW-CRDS Spectra of Ozone in the 6000 to 6750 cm <sup>-1</sup> Spectral Region			
	A. Perrin	Relief is on the Way: Status of the Line Positions and Intensities   for Nitric Acid			
	L.H. Coudert	The Water Molecule: Line Position and Line Intensity Analyses   up to the Second Triad			
Session 2 <b>Theory</b>	V. Boudon	<u>Global Frequency and Infrared Intensity Analysis of <sup>12</sup>CH<sub>4</sub> Lines</u> <u>in the 0-4800 cm<sup>-1</sup> Region</u>			
	R.R. Gamache	Temperature dependence of N <sub>2</sub> -, O <sub>2</sub> -, and air-broadened half- widths of water vapor transitions: insight from theory and comparison with measurement			
	Q. Ma	Modification of the Robert-Bonamy Formalism and FurtherRefinement Challenges			
	I. Gordon	A New "Diet" for Air-broadened Half-widths of Water Vapor in the HITRAN2004 Compilation			
	R.R. Gamache	A Semi-empirical Adustment of the Vibrational Dependence of the Polarizability of Ozone for use in Line Shift Calculations			
Poster	A. Barbe	<u>Observations of SO<sub>2</sub> spectra with a quantum cascade laser</u> <u>spectrometer around 1090 and 1160 cm<sup>-1</sup>. Comparison with</u>			

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Session 1		HITRAN database and updated calculations			
	D. Jacquemart	Recent knowledge of spectroscopic parameters for Acetylene in the IR			
	K.C. Gross	Developing a Phenomenological Model of Infrared Emissions from Detonation Fireballs for Explosives Identification			
	K.L. Letchworth	<b><u>Rapid and Accurate Calculation of the Voigt Function</u></b>			
Day 2, Tuesday 27 June 2006					
Session 3 <b>Remote</b> <b>Sensing</b>	JM. Flaud	Synergistic use of different atmospheric instruments: What about the spectral parameters			
	C.D. Boone	Linelist Needs for the Atmospheric Chemistry Experiment			
	B. Sen	CO <sub>2</sub> Spectroscopy Evaluation using Atmospheric Solar Absorption Spectra			
	L.R. Brown	Infrared Laboratory Spectroscopy of CH <sub>4</sub> and CH <sub>3</sub> D for Atmospheric Studies			
	M.A.H. Smith	<b>Spectroscopic parameter requirements for remote sensing of</b> <u>terrestrial planets</u>			
Session 4 <b>Laboratory</b> <b>Spectroscopy</b>	D.F. Plusquellic	THz Studies of Water Vapor			
	L. Daumont	HDO and D <sub>2</sub> O long path spectroscopy: Ongoing work of the Brussels-Reims Team			
	B. Drouin	Air-broadening Ozone Linewidths in the Submillimeter Wavelengths CO <sub>2</sub> Spectroscopy Evaluation using Atmospheric Solar Absorption Spectra			
	D. Jacquemart	Methyl Bromide: Spectroscopic line parameters in the 7- and 10- <u>µm region</u>			
	LH. Xu	High Resolution Assignment of the $v_{14}$ and $v_{16}$ Bands in the 10- $\mu$ m Regions for Trans-Acrolein			
	A. Goldman	Improved Line Parameters for the $X^{1}Sigma_{g}^{\pm}$ (1-0) IRQuadrupolar Transitions of $^{14}N_{2}$			
	M. Carleer	Reinvestigation of the <sup>16</sup> O <sub>2</sub> Atmospheric A Band by High- resolution Fourier Transform Spectroscopy			
	V.H. Payne	Assessment of microwave line parameters for oxygen: Comparisons between models and atmospheric measurements			

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Poster Session 2	M.W. Shephard	Implications for v2 and v3 CO2 Spectroscopic Parameters fromAtmospheric Remote Sensing		
	S. Fally	UV Fourier Transform Absorption Cross-sections of Benzene, Toluene, Ortho-, Meta-, and Para-Xylene		
	X. Liu	<b>The Effect of Different Ozone Cross Sections in the Ultraviolet on</b> <b>Ozone Profile Retrievals from GOME</b>		
	S.T. Gibson	Temperature Dependence of the O2 Schumann-RungeContinuum Photoabsorption Cross Section from a Coupled- Channel Perspective		
	M. McHugh	Free, Fast and Accurate Online Calculation of Spectral Absorption and Radiance at www.gats-inc.com		
	V. Beloborodov	Use of HITRAN and UVACS databases for the task of precision ambient air control		
Day 3, Wednesday 28 June 2006				
Session 5 Databases	H.S.P. Müller	<b>Recent Developments in the Cologne Database for Molecular</b> <u>Spectroscopy, CDMS, and the Need for Further Laboratory</u> <u>Spectroscopy</u>		
	N. Jacquinet- Husson	Assessment of the GEISA and GEISA/IASI Spectroscopic Data Quality: through comparisons with other public database archives		
	J. Tennyson	A database for water transitions from experiment and theory		
	S.T. Massie	New cross sections, indices of refraction, and reflectance spectra of atmospheric interest		
	H. Harde	MolExplorer: A New Tool for Computation and Display ofSpectra from the HITRAN Database		
	M.L. Dubernet	Atomic and Molecular Lines Data Model		