

PROGRAMME

Sunday, August 31 (evening)

- 17:00 - 19:30 Registration (*Posters from sessions 1, 2 and 3 may already be installed*)
- 19:30 - 20:30 **Opening T1: Philippe CIAIS** – *A recent acceleration in the carbon cycle: what, where and why?*
- 20:30 Cocktail dinner

Monday, September 1 (morning)

SESSION 1 *Methodological Advances in Stable Isotope Studies*

Convenors/Chairs: Willi BRAND, Erik KERSTEL & Christophe QUETEL

- 08:20 - 08:30 Welcome
- 08:30 - 08:35 Chair's Introduction
- 08:35 - 09:10 **1 - T2: Manfred GRÖNING** – **Keynote:** *“New international measurement standards and the calibration and uncertainty assessment of stable isotope measurements”*
- 09:10 - 09:25 **1 - T3:** Hans-Peter SIEPER, Hans-Joachim KUPKA, **Lutz LANGE**, Andreas ROSSMANN, Nicole TANZ, Hanns-Ludwig SCHMIDT & Sobin SUTKA – *“Oxygen isotope ratio determination by low temperature pyrolysis”*
- 09:25 - 09:40 **1 - T4:** François MARTINEAU, **François FOUREL**, Christophe LECUYER, Eموke TOTH & Agnes GOROG – *“Is it sensible to generate $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$ from a small number of individual microfossils?”*
- 09:40 - 09:55 **1 - T5: Marc METZKE**, Enno BAHLMANN & Kay-Christian EMEIS – *“Performance evaluation of nitrogen isotope ratio determination in sediments: Results from a laboratory intercomparison”*
- 09:55 - 10:10 **1 - T6: Christophe R. QUETEL**, Emmanuel PONZEVERA, Christophe BRACH-PAPA & José Luis TODOLI – *“Study of different configurations of ultra-low flow sample introduction systems for isotope ratio measurements by MC-ICPMS in liquid microsamples”*
- 10:10 - 10:40 Coffee break
- 10:40 - 11:05 **1 - T7: Rosario IANNONE**, Daniele ROMANINI, Harro MEIJER & Erik KERSTEL – **Junior Keynote:** *“Calibration of a water vapour isotope ratio spectrometer: Using a piezo-injector to produce moist air with known water concentration and isotopic signature”*
- 11:05 - 11:20 **1 - T8: John Barry MCMANUS**, David D. NELSON & Mark S. ZAHNISER – *“Quantum cascade laser based instruments for real time measurement of isotopic ratios of carbon dioxide and methane in ambient air”*
- 11:20 - 11:35 **1 - T9:** Thomas A. RAHN & **Aaron D. VAN PELT** – *“Continuous Isotopic CO₂ Measurements by Wavelength-Scanned Cavity Ring Down Spectroscopy: Studies of Exchange Processes in Terrestrial Ecosystems”*
- 11:35 - 11:50 **1 - T10: M. KRUMMEN**, Dieter JUCHELKA, Andreas HILKERT & Johannes SCHWIETERS – *“GC Isolink: A new Concept for automated multi-element IRMS-GC/MS”*
- 11:50 - 12:05 **1 - T11: Benjamin T. FULLER**, Colin I. SMITH, Kyungcheol CHOY & Michael P. RICHARDS – *“Using LC-IRMS to trace the flow of dietary carbon in amino acids from breast milk to infant tissue”*
- 12:05 - 12:20 **1 - T12: James S.O. MCCULLAGH**, Julia GAYE-SIESSEGGGER & Ulfert FOCKEN – *“Tracing amino acids from the diet to body tissues by LC-IRMS: Method development for a feeding trial with rainbow trout”*
- 12:20 - 12:30 Short conclusion by convenors
- 12:30 - 14:00 Lunch

Monday, September 1 (afternoon)

SESSION 2 *Physiology and Biochemistry across the spectrum of life forms*

Convenors/Chairs: Piotr PANETH, Richard J. ROBINS & Frans STELLAARD

- 14:00 - 14:05 Chair's Introduction
- 14:05 - 14:40 **2 - T40: Dale A. SCHOELLER – Keynote:** *“Water: A Small Molecule with a Big Story”*
- 14:40 - 14:55 **2 - T41: Klaus D. WUTZKE, Martin DÜRR & Marianne WIGGER –** *“Effect of different dosages of L-carnitine supplementation on half-life of gastric emptying and oro-caecal transit time in healthy adults”*
- 14:55 - 15:10 **2 - T42: Gabriela B. NARDOTO, Lesley A. CHESSON, Fernanda F. BALLIONE, Fabiana FRACASSI, Edmar A. MAZZI, James R. EHLERINGER & Luiz A. MARTINELLI–** *“The C₄ influence on modern human diet revealed through the stable isotope analysis of fingernails and Big Mac™ hamburgers”*
- 15:10 - 15:25 **2 - T43: Philippe LESOT, Isabelle BILLAULT & Vincent BAILLIF –** *“Study of the isotopic fractionation of C-18 unsaturated fatty acids using natural abundance deuterium 2D NMR spectroscopy in chiral oriented solvents”*
- 15:25 - 15:40 **2 - T44: Krzysztof P. REMBACZ, Klaas Nico FABER & Frans STELLAARD –** *“Selective conversion of plasma glucose to CO₂ by Saccharomyces cerevisiae for the measurement of ¹³C abundance”*
- 15:40 - 16:10 Refreshments
- 16:10 - 16:35 **2 - T45: Svena LÜDKE, Ulrich FLENKER, Wilhelm SCHÄNZER & Dietmar SCHOMBURG – Junior Keynote:** *“Kinetic Isotope Effect associated with the enzymatic Reduction of 3-Hydroxy-3-methylglutaryl-CoA, a Key Reaction in Steroid Biosynthesis”*
- 16:30 - 16:50 **2 - T46: Roland BOL, Gareth GRIFFITH, Shirley KERR & Nick OSTLE –** *“Occurrence of high $\delta^{15}\text{N}$ values in the fruitbodies of waxcaps and associated fungi from UK and New Zealand sites”*
- 16:50 - 17:05 **2 - T47: Raphael HENRI, Marie H. ANDRIEU, Katia PIANELLI, Sophie COLOMBIE, Bertrand BEAUVOIT, Dominique ROLIN & Martine DIEUAIDE-NOUBHANI –** *“Behavior studies of an accumulating metabolism by metabolic flux analysis: ex-vivo approaches on tomato fruit”*
- 17:05 - 17:20 **2 - T48: Nicolas BRÜGGEMANN, Rudolf MEIER, Dominik STEIGNER, Ina ZIMMER & Jörg-Peter SCHNITZLER –** *“Aerobic methane emission from grey Poplar (Populus x canescens)”*
- 17:20 - 17:35 **2 - T49: Frank HUELSEMANN, Ulrich FLENKER, Karsten KOEHLER, Wilhelm SCHÄNZER & Jochen MESTER –** *“Effect of increased physical activity and dietary change on stable nitrogen isotope ratios of human hair”*
- 17:35 - 17:50 **2 - T50: Alexis GILBERT, Richard J. ROBINS & Gérald REMAUD –** *“The determination of natural site-specific ¹³C isotopic deviation in sugars by quantitative ¹³C Nuclear Magnetic Resonance Spectroscopy”*
- 17:50 - 18:00 short Conclusion by convenors
- 18:00 - 20:00 Poster presentations (emphasis on sessions 1 & 2)
- 20:00 - 21:30 Dinner
- 21:30 - 22:30 SFIS and GASIR General Assembly meetings

Tuesday, September 2 (morning)

SESSION 3 Plant Ecophysiology: From Leaf to Ecosystem**Convenors/Chairs:** Daniel EPRON, Howard GRIFFITHS, Cristina MÁGUAS & Rolf T.W. SIEGWOLF

08:30 - 08:35 Chair's Introduction

08:35 - 09:10 **3 - T64:** Margaret M. BARBOUR & Graham D. FARQUHAR – **Keynote:** *“Carbon Isotope Discrimination by Leaves – the dynamic view with a tunable diode laser absorption spectrometer”*09:10 - 09:25 **3 - T65:** Claudia KEITEL, Matthias CUNTZ & Graham D. FARQUHAR – *“Leaf water enrichment in the non-steady state – an experiment with Ricinus communis”*09:25 - 09:40 **3 - T66:** Rolf T.W. SIEGWOLF, Zachary KAYLER, Christina E. REYNOLDS & Matthias SAURER – *“The Role of Water Vapour Diffusion from the Atmosphere Back into the Leaf, a Mostly Ignored but Relevant Flux, as Revealed by Stable ¹⁸O Isotopes”*09:40 - 09:55 **3 - T67:** Jérôme OGEE, Lisa WINGATE, Alexandre BOSC, Régis BURLETT, Marion DEVAUX, Denis LOUSTAU, Michel SARTORE & John GRACE – *“Understanding seasonal oxygen isotope signals of photosynthesis and respiration at the ecosystem scale using a chamber TDL system”*09:55 - 10:10 **3 - T68:** Ulli SEIBT, Gary LANIGAN, Nick BETSON & Howard GRIFFITHS – *“Carbon isotope fractionation during photorespiration and carboxylation”*

10:10 - 10:40 Coffee break

10:40 - 11:05 **3 - T69:** Camille BATHELLIER, Franz-W. BADECK, Philippe COUZI, Sébastien HARSCÖET, Caroline MAUVE & Jaleh GHASHGHAIE – **Junior Keynote:** *“Carbon isotope discrimination during dark respiration in autotrophic and heterotrophic organs in Phaseolus vulgaris L.”*11:05 - 11:20 **3 - T70:** Arthur GESSLER, Elke BRANDES, Nina BUCHMANN, Naomi KODAMA, Pitter FERRIO & Romain BARNARD – *“Tracing the carbon and oxygen isotope signals from newly assimilated sugars in the leaves to the tree ring archive”*11:20 - 11:35 **3 - T71:** Alice MICHELOT, Thomas EGLIN, Caroline LELARGE, Eric DUFRENE & Claire DAMESIN – *“Comparison of seasonal variations in water-use efficiency calculated from flux data and carbon isotopes of tree-rings in a temperate forest”*11:35 - 11:50 **3 - T72:** Stephan UNGER, Cristina MÁGUAS, João S. PEREIRA, Teresa S. DAVID, Luis AIRES & **Christiane WERNER** – *“Partitioning ecosystem carbon fluxes: Disentangling temporal dynamics of all major component fluxes in a Mediterranean ecosystem”*11:50 - 12:05 **3 - T73:** Michael BAHN, Nicolas BRÜGGEMANN, Andreas RICHTER, **Michael SCHMITT**, Sebastian WALDHUBER & Rolf T.W. SIEGWOLF – *“Transfer and respiratory use of new carbon in a mountain grassland”*12:05 - 12:20 **3 - T74:** Louise C. ANDRESEN, Anders MICHELSEN, Sven JONASSON, Claus BEIER & Per AMBUS – *“Temperate heath plant biomass, root and soil microbial acquisition of organic nitrogen is influenced by elevated temperature, CO₂ and drought”*

12:20 - 12:30 Short conclusion by convenors

12:30 - 14:00 Lunch

Tuesday, September 2 (afternoon)

SESSION 4 Soil, Freshwater & Marine Ecology

Convenors/Chairs: Pascal BOECKS, Gerd GLEIXNER & Pascal RIERA

- 14:00 - 14:05 Chair's Introduction
- 14:05 - 14:40 **4 - T126: Evelyn KRULL – Keynote:** *“From plants to soils to sediments: isotopic applications in ecosystem science”*
- 14:40 - 15:05 **4 - T127: Julien CUCHEROUSSET & Frédéric SANTOUL– Junior Keynote:** *“The use of stable isotope ($\delta^{13}\text{C}$ & $\delta^{15}\text{N}$) to investigate trophic interactions between native and introduced Salmonids”*
- 15:05 - 15:20 **4 - T128 : Mireille HARMELIN-VIVIEN, Daniel COSSA, Daniela BANARU, Yves LETOURNEUR, Capucine MELLON-DUVAL & Sylvette CROCHET –** *“Influence of trophic position and food web baseline on mercury content of mullid fishes in the Mediterranean and Black Seas”*
- 15:20 - 15:35 **4 - T129: Luke DICKSON, Richard P. EVERSLED & Richard WALL –** *“ ^{13}C and ^{15}N labeling of cow dung microorganisms in situ with compound-specific isotope analyses to disclose bacteriophagy and facultative carnivory in the cow dung pat food web”*
- 15:35 - 15:50 **4 - T130: Sibylle STEINBEISS, Gerd GLEIXNER & Markus ANTONIETTI –** *“Soil as a Carbon Deposit: Stability and Biological Activity of synthetic carbons in soil”*
- 15:50 - 16:20 Refreshments
- 16:20 - 16:45 **4 - T131: Stefanie D. GOLDBERG & Gerhard GEBAUER – Junior Keynote:** *“Insights into the fate of N_2O in soils through concentrations and isotope analysis along soil profiles”*
- 16:45 - 17:00 **4 - T132: Lisa WINGATE, Jérôme OGEE, Ulli SEIBT & Matthias Cuntz –** *“Do soil micro-organisms influence the oxygen isotope signal of atmospheric CO_2 ?”*
- 17:00 - 17:15 **4 - T133: Elizabeth M. BINGHAM, Pete J. MAXFIELD, Nadia DILDAR, Ed C. HORNIBROOK & Richard P. EVERSLED –** *“Tracing the Fate of Methanotrophically Fixed carbon in Soils via $^{13}\text{CH}_4$ Pulse Labelling”*
- 17:15 - 17:30 **4 - T134: Adriana TROJANOWSKA, Dominika LEWICKA-SZCZEBAK, Mariusz-Orion JEDRYSEK, Marta KURASIEWICZ, Leonard I. WASSENAAR & Katarzyna IZYDORCZYK –** *“Daily changes of the isotopic signatures of the photosynthetic activity during cyanobacterial bloom”*
- 17:30 - 17:45 **4 - T135: Perrine MANGION, Emilie CHEVALIER, Shadrack ULOMI, Natacha BRION, Marc ELSKENS, Willy BAEYENS, Frank DEHAIRS & Erik KRISTENSEN –** *“Impact of anthropogenic inputs on the nitrogen cycle of a peri-urban mangrove system (Dar es Salaam, Tanzania)”*
- 17:45 - 18:00 Short Conclusion by convenors
- 18:00 - 20:00 Poster presentations (emphasis on session 3)
- 20:00 - 21:30 Dinner
- 21:30 - 22:30 Round Table discussions (to be defined)
Posters from sessions 1, 2 and 3 must be removed
Posters from sessions 4, 5, 6, 7 and 8 may be installed

Wednesday, September 3 (morning)

SESSION 5 Hydrology, Earth Science & Cosmochemistry**Convenors/Chairs:** Jean-Luc MICHELOT, Ulrich OTT & Iñaki VADILLO

- 08:35 - 09:10 **5 - T168: Bernard MARTY** – **Keynote:** *“Analysing samples from the solar nebula: stable isotopes in ET samples returned by space missions”*
- 09:10 - 09:25 **5 - T169: Britta HARTARD**, Matthias CUNTZ, Cristina MÁGUAS & Michael LAKATOS – *“Lichens as natural tracer for $\delta^{18}O$ of ambient vapour”*
- 09:25 - 09:40 **5 - T170: Christine VALLET-COULOMB**, Françoise GASSE & Corinne SONZO – *“Seasonal evolution of the atmospheric water vapour isotope composition above a tropical lake: deuterium excess and implication for water recycling”*
- 09:40 - 09:55 **5 - T171: Stanislaw HALAS**, Ana-Voica BOJAR, Lena KHMELEVSKA & Tadeusz Marek PERYT – *“Massive salt deposits as a new isotope archive of Earth surface temperatures in geological past”*
- 09:55 - 10:10 **5 - T172: Andrea VIETH**, Rainard M. HABERER, Brian HORSFIELD & Heinz WILKES – *“Evaluation of alteration processes in petroleum reservoirs using carbon and hydrogen isotopic compositions of hydrocarbons”*
- 10:10 - 10:40 Coffee break
- 10:40 - 11:05 **5 - T173: Thibaut BLONDEL**, Yves TRAVI, Christophe EMBLANCH & Yves DUDAL – **Junior Keynote:** *“Organic matter as a potential complementary tool for $\delta^{18}O$ data interpretation in heterogeneous aquifers”*
- 11:05 - 11:20 **5 - T174: Jugdeep AGGARWAL** – *“Mass Dependent Fractionation of Strontium Isotopes in Nature”*
- 11:20 - 11:35 **5 - T175: Claudia HEIDEL**, Marion TICHOMIROVA & Manuela JUNGHANS – *“The Isotopic Composition of Sulphate Formed by Pyrite Oxidation Experiments Using Different Grain Sizes”*
- 11:35 - 11:50 **5 - T176: Steven J. GRANGER**, Tim H.E. HEATON, Roland BOL, Gary BILOTTA, Patricia BUTLER, Philip N. OWENS & Philip M. HAYGARTH – *“Using $\delta^{15}N$ and $\delta^{18}O$ to evaluate the sources and pathways of nitrate in rainfall driven drainage from grassland systems”*
- 11:50 - 12:05 **5 - T176 : Clara TORRENTÓ**, Neus OTERO, **Albert SOLER**, Anna MENCIAÓ & Josep MAS-PLA – *“Multi-isotopic approach (N, S, C, O, D) as a tool to evaluate occurrence and temporal variability of natural denitrification processes in a regional system (Osona, NE Spain)”*
- 12:05 - 12:20 **5 - T177: Martin KRALIK**, Franko HUMER, Andreas DARSOW, Thilo HOFMANN, Alex SUCKOW & Manfred GRÖNING – *“Implementation of the EU-Water Framework Directive: “Mean Residence Time” and Groundwater Pollution close to Vienna, Austria”*
- 12:20 - 12:30 Short conclusion by convenors
- 12:30 - 19:00 Trip to Porquerolles island (incl. lunch)
- 20:30 **Conference Diner**

Thursday, September 4 (morning)

SESSION 6 Climatology, Paleoclimatology & Archaeology**Convenors/Chairs:** Juha KARHU, Joël SAVARINO & Jürgen SCHLEUCHER

- 08:30 - 08:35 Chair's Introduction
- 08:35 - 09:10 **6 - T195: Julia LEE-THORP – *Keynote*: “On stable isotopes and old bones”**
- 09:10 - 09:25 **6 - T196: Luca LAI – “Correcting bone collagen isotopic values to limit environment-derived distortions and enhance inter-site comparability: an application to Prehistoric Greece”**
- 09:25 - 09:40 **6 - T197: Tsige GEBRU, Valery Terwilliger, Nikki STRONG, Zewdu ESHETU, Mohammed UMER & Yongsong HUANG – “What Can Stable Isotopes Reveal About Vegetation History and What Can Vegetation History Reveal About Past Climate and Land Use Changes in Ethiopia’s Northern Highlands?”**
- 9:40-10:10 Coffee break
- 10:10 - 10:35 **6 - T198: Piotr JEZIERSKI & Grzegorz SKRZYPEK – *Junior keynote*: “Studies of paleoenvironmental conditions based on stable isotopes and EPR (Electron Paramagnetic Resonance) analyses”**
- 10:35- 10:50 **6 - T199: Elizabeth TURNER, Philip A. BARKER, Mélanie J. LENG & Dirk VERSCHUREN – “A 25,000 Year Record Of Carbon And Oxygen Isotope Variation In Diatoms From Lake Challa, Kilimanjaro”**
- 10:50 - 11:05 **6 - T200: Kazimierz ROZANSKI, Monika A. KLISCH, Przemyslaw WACHNIEW, Zbigniew GORCZYGA, Tomasz GOSLAR, Thomas W.D. EDWARDS & Aldo SHEMESH – “Deciphering hydroclimatic changes in central Europe across late Glacial/Holocene boundary from high-resolution, absolutely dated stable isotope records preserved in laminated sediments of lake Gosciz”**
- 11:05 - 11:20 **6 - T201: Olga V. SIDOROVA, Rolf T.W. SIEGWOLF, Matthias SAURER & Eugene A. VAGANOV – “Response of Siberian Larch Trees to Climatic Changes Inferred from Tree Ring Width and Stable Isotopes ($\delta^{13}\text{C}$ and $\delta^{18}\text{O}$) for the Recent and Medieval Period”**
- 11:20 - 11:45 **6 - T202: Ivan VIGANO, Rupert HOLZINGER, Thomas RÖCKMANN & Arnold VAN DIJK – *Junior keynote*: “The isotope signature of methane emitted from plant matter upon irradiation with UV light”**
- 11:45 - 12:00 **6 - T203: David NOONE – “Hydrological pathways in the atmosphere deduced with water isotope measurements from space”**
- 12:00 - 12:15 **6 - T204: Christophe STURM, Jan SEIBERT, Allan RODHE & Dan HAMMARLUND – “From atmospheric variability to lake-sediment archives: modelling the stable water isotope cycle over Scandinavia”**
- 12:15 - 12:30 short conclusion by convenors
- 12:30 - 14:00 Lunch

Thursday, September 4 (afternoon)

SESSION 7 Isotopic signatures as diagnostic and decision Tools for Society

Convenors/Chairs: Stela CUNA, Carsten FAUHL-HESEK, Claude GUILLOU & David WIDORY

- 14:00 - 14:05 Chair's Introduction
- 14:05 - 14:40 **7 - T227: Thomas D. BULLEN** – *keynote: “A Place for Metal Stable Isotopes in Forensic Geochemistry: Geologic Roots, Environmental Applications, Societal Impacts”*
- 14:40 - 14:55 **7 - T228: Matteo PERINI**, Federica CAMIN, Edi PIASENTIER & Luana BONTEMPO – *“Multielement (H,C,N,O) stable isotope characteristics of lamb from different Italian regions”*
- 14:55 - 15:10 **7 - T229: Katharina HEINRICH**, Federica CAMIN, Claus SCHLISHT, Simon KELLY, Andreas ROSSMANN, Freddy THOMAS, Eric JAMIN & Micha HORACEK – *“Multielement Stable Isotope Characteristics of Cereal (C, N, O and S) and Soil (N and S) from different European Regions”*
- 15:10 - 15:25 **7 - T230: Romain MILLOT** & Philippe NEGREL – *“Wine and Champagne: a view through Lithium isotopes”*
- 15:25 - 15:40 **7 - T231: Maura PELLEGRINI**, Monica MANIERI, Barbara ALFEI & Enrico BRUGNOLI – *“Stable carbon isotope composition of Italian extra virgin olive oils: Implications for geographic characterisation and food authentication”*
- 15:40 - 16:10 Refreshments
- 16:10 - 16:35 **7 - T232: Natacha GENTILE**, Olivier DELEMONT & Rolf T.W. SIEGWOLF – *Junior Keynote: “Stable isotopes in forensic science”*
- 16:30 - 16:50 **7 - T233: Christophe SAUDAN**, Emmanuel STRAHM, Caroline EMERY, François MARKLEY, Patrice MANGIN & Martial SAUGY – *“Delta¹³C-values of endogenous urinary steroids from different world human populations”*
- 16:50 - 17:05 **7 - T234: Thomas PIPER**, Ute MARECK & Wilhelm SCHÄNZER – *“Investigation of the dehydroepiandrosterone metabolism after a single oral application for doping control purposes”*
- 17:05 - 17:20 **7 - T235: Holger PENNING**, Sebastian R. SORENSEN, Jens AAMAND, Christopher KRAMER & **Martin ELSNER** – *“Distinguishing Abiotic and Biotic Hydrolysis of the Herbicide Isoproturon based on Compound-Specific Intramolecular Carbon and Nitrogen Isotope Analysis”*
- 17:20 - 17:35 **7 - T236: Michael LAKATOS**, Britta HARTARD, Alexandra PARDOW, Martina HESIT & **Cristina MÁGUAS** – *“Stable Isotopes of cryptogams as tracers of microenvironmental sources and ecological changes”*
- 17:35 - 17:50 **7 - T237: Asit MAZUMDER**, Debby EPPS, Kevin RIEBERGER, Shapna MAZUMDER & Sergei VERENITCH – *“Integration of Nitrogen Stable Isotope, Caffeine and Fecal Indicator Bacteria into Robust Predictor of Sewage and Septic Inputs to Aquatic Ecosystems”*
- 17:50 - 18:00 Short Conclusion by convenors
- 18:00 - 20:00 Poster presentations (sessions 4, 5, 6, 7, 8)
- 20:00 - 21:30 Dinner
- 21:30 - 22:30 JESIUM committee meeting + JESIUM 2012

Friday, September 5 (morning)

SESSION 8 *New Concepts, Future Developments***Convenors/Chairs:** Nina BUCHMANN, Roland BOL, Thomas WAGNER & Deborah HEMMING

09:00 - 09:05 Chair's Introduction

09:05 - 09:40 **8 - T254: Dan YAKIR – keynote: “New Concepts in the use of stable isotope”**09:40 - 09:55 **8 - T255: Joachim MOHN**, Hellen WAECHTER, Bela TUZSON, Markus W. SIGRIST & Lukas EMMENEGGER – *“Continuous nitrous oxide isotopomer measurements based on quantum cascade lasers”*09:55 - 10:25 **“Isotope Award of the Dr. Karleuge Habfast Donation”** (Ceremony by GASIR & talk of the Winner)

10:25 - 11:05 Coffee break

11:05 - 11:30 **8 - T258: Dirk SACHSE**, Gerd GLEIXNER, Julian P. SACHS, Nina BUCHMANN, Ansgar KAHMAN – **Junior keynote:** *“Compound-specific hydrogen isotope ratios: A new tool to assess paleohydrology and ecosystem hydrologic state”*11:30 - 11:45 **8 - T256: Ulrich OTT** – *“Some Topics and Recent Advances in Cosmochemistry: Meteorites from Mars and Interstellar Grains”*11:45 - 12:00 **8 - T257: Anne JUILLET-LECLERC**, Stéphanie REYNAUD & Claire ROLLION-BARD – *“Is isotope thermometer captured in biogenic carbonate? The example of coral skeleton”*12:00 - 12:15 **8 - T259: Tatiana R. BETSON**, Angela AUGUSTI, Walter VETTER, **Jürgen SCHLEUCHER** – *“Isotopomers reveal long-term plant-climate interactions and sources of persistent organic pollutants”*12:15 - 12:30 **8 - T260: Guillaume TCHERKEZ**, Jaleh GHASHGHAIE & Howard GRIFFITHS – *“Isotopomics: methods for improving the visualization and deconvolution of isotopic signals”*

12:30 - 13:00 General discussion + JESIUM Prize distribution + Announcement for JESIUM 2012

13:00 - 14:30 Lunch

15:00 End of the Meeting - Departure