

## 2026

- 08.09.2026  
368 FLAIR2026 – Field Laser Applications in Industry and Research  
André Grosjean Cultural and Convention Centre, Aix-les-Bains, France  
*Putting a spotlight on the water – THz calorimetry*
- 24.06.2026  
367 TSRC Workshop "Hydrophobicity: From Theory, to Simulation, to Experiment"  
Telluride Intermediate School, Telluride, CO, USA  
*Liquid-liquid phase separation – Ask the water!*
- 15.06.2026  
366 TSRC Workshop "Water Structure, Dynamics and Thermodynamics in Biology"  
Telluride Science & Innovation Center, Telluride, CO, USA  
*Putting a spotlight on water in protein condensation*
- 10.06.2026  
365 Water Anomalies – Origin and Implications  
Stockholm University, Albano Campus, Stockholm, Sweden  
*Caught in the act: Time-resolved THz spectroscopy puts the spotlight on the role of the solvent in photochemical reactions*
- 01.04.2026  
364 Bunsen-Tagung 2026 "Properties and Processes under Confinement" (plenary talk)  
Technische Universität Dresden  
*Local thermodynamics and electric fields at an electrified interface*
- 25.03.2026  
363 Research Center Opening & RESOLV Event "Diving into the next era"  
Deutsches Bergbau-Museum in Bochum  
*RESOLV – Diving into the next era*
- 22.03.2026  
362 ACS Spring Meeting - Electric Field Effects in Vibrational Spectroscopy  
Georgia World Congress Center, Atlanta, GA, USA  
*Local thermodynamics and electric fields at an electrified interface*
- 04.03.2026  
361 Wissenschaftliche Sitzung der Klasse für Naturwissenschaften und Medizin  
Nordrhein-Westfälische Akademie der Wissenschaften und der Künste, Düsseldorf  
*Der Oscar für den besten Nebendarsteller geht an: Wasser*

## 2025

- 16.12.2025  
360 Pacifichem 2025, Symposium "Isolation of transient species in superfluid helium droplets", Honolulu, Hawaii, USA  
*On the nature of hydrogen bonding in the H<sub>2</sub>S dimer*
- 16.12.2025  
359 Pacifichem 2025, Symposium "Biomolecules at interfaces defining the cellular environment: From conformational dynamics to informatic approaches"  
Honolulu, Hawaii, USA  
*Liquid-liquid phase separation – Ask the water!*
- 11.12.2025  
358 QCB Seminar, NSF Science and Technology Center for Quantitative Cell Biology  
Beckman Institute, University of Illinois, IL, USA  
*Liquid-liquid phase separation – Ask the water!*
- 10.12.2025  
357 Department of Chemistry Colloquium, Northwestern University, IL, USA  
*Putting the spotlight on water in protein condensation*

- 04.12.2025  
356  
Interfacial H<sub>2</sub>O: Shaping the Electric Double Layer  
Lorentz Center, Leiden, Netherlands  
*Observation of the reshaping of the electric double layer at electrified interfaces*
- 18.11.2025  
355  
From Molecular Beams to Nanomedicine: A Tribute to the Scientific Journey of  
Giacinto Scoles, International Centre for Theoretical Physics (ICTP), Trieste, Italy  
*Liquid-liquid phase separation – Ask the water!*
- 16.09.2025  
354  
26<sup>th</sup> International Conference on Horizons in Hydrogen Bond Research  
Deutsches Elektronen-Synchrotron DESY, Hamburg  
*To be or not to be hydrogen bonded: Supercritical water and (H<sub>2</sub>S)<sub>2</sub>*
- 03.09.2025  
353  
HT-DYNA Workshop – Structural Dynamics of Elementary Proton Transport Processes  
Charité Crossover (CCO) Auditorium, Charité Berlin-Mitte, Berlin  
*Caught in the act: Optical pump THz probe allows real-time observation of the solvent response subsequent to photoexcitation*
- 21.08.2025  
352  
50<sup>th</sup> International Conference on Infrared, Millimeter, and THz waves  
(IRMMW-THz 2025), Aalto University, Espoo, Finland  
*THz spectroscopy spotlights the role of water in biological processes*
- 19.07.2025  
351  
IUPAB/ABA Biophysics Satellite 2025  
(International Union for Pure and Applied Biophysics)  
Kuala Lumpur Convention Centre, Malaysia  
*Announcing the Oscar for best supporting actor: Water!*
- 15.07.2025  
350  
IUPAC 2025 – 50<sup>th</sup> World Chemistry Congress "Chemistry for Sustainable Future"  
(International Union of Pure and Applied Chemistry)  
Kuala Lumpur Convention Centre, Malaysia  
*Putting the solvent in the spotlight*
- 23.06.2025  
349  
16<sup>th</sup> Femtochemistry Conference (FEMTO 16) "Dynamics of Complex Molecular  
Processes in Chemistry, Biology, and Physics", Savoia Hotel, Trieste, Italy  
*Caught in the act: Optical pump THz probe allows real-time observation of the solvent response subsequent to photoexcitation*
- 16.06.2025  
348  
Conference "Aqueous Systems: The Frontier and Beyond"  
Grecotel Filoxenia, Kalamata, Greece  
*THz calorimetry probing the H-bonds in aqueous systems*
- 12.05.2025  
347  
Faculty of Chemistry Colloquium, University of Vienna, Austria  
*Caught in the act: Time-resolved THz spectroscopy puts the spotlight on the role of the solvent into photochemical reactions*
- 25.04.2025  
346  
Department of Chemical Engineering Colloquium, UC Santa Barbara, CA, USA  
*Liquid-liquid phase separation? Ask the water!*
- 17.04.2025  
345  
Enrico Fermi Colloquium  
European Laboratory for Non-Linear Spectroscopy (LENS), Firenze, Italy  
*Probing free energy in biological and chemical reactions by THz spectroscopy – Ask the water!*
- 07.04.2025  
344  
Bioelectrodynamics Webinar (virtual talk)  
hosted by Institute of Photonics and Electronics, Czech Academy of Sciences

*Probing free energy in reactions by THz spectroscopy – Ask the water!*

26.03.2025 ACS Spring Meeting - Reactivity in Microdroplets  
343 San Diego Convention Center, San Diego, CA, USA  
*Tuning chemistry at electrified interfaces*

05.03.2025 2025 Women in Photochemistry Symposium  
342 University College London, UK  
*A journey into solvation science and "excited" states*

21.02.2025 Spectroscopy and Dynamics of Molecules and Clusters (SDMC-2025)  
341 Mussoorie, Uttarakhand, India  
*On the nature of hydrogen bonding in the H<sub>2</sub>S dimer*

09.01.2025 GDCH Vortrag, KIT, Karlsruhe  
340 *Probing free energy in reactions by THz spectroscopy – Ask the water!*

## 2024

19.11.2024 International Conference on Optics Within Life Sciences (OWLS-17)  
339 Indian Institute of Technology Bombay (IIT Bombay), Powai, Mumbai, India  
*Probing free energy in reactions by THz spectroscopy – Ask the water!*

14.09.2024 133<sup>rd</sup> Assembly of the Society of German Natural Scientists and Physicians (GDNÄ)  
338 (Gesellschaft Deutscher Naturforscher und Ärzte), University of Potsdam  
*Der Oscar für den besten Nebendarsteller geht an: Wasser*

06.08.2024 GRC "Vibrational Spectroscopy"  
337 Gordon Research Conference, Bryant University, Smithfield, RI, USA  
*Intermolecular vibrational spectroscopy meets calorimetry: Watching the solvent in action*

05.07.2024 6<sup>th</sup> Italian Soft Days Conference, University of Florence, Italy  
336 *Probing free energy in reactions by THz spectroscopy – Ask the water!*

02.07.2024 Molecular Biophysics Workshop (plenary talk)  
335 Laboratoire Charles Coulomb, University of Montpellier, France  
*Probing free energy in reactions by THz spectroscopy – Ask the water!*

24.06.2024 15<sup>th</sup> International Conference on Quantum Fluid Clusters  
334 Aarhus Institute of Advanced Studies (AIAS), Aarhus University, Denmark  
*Hydrogen bonding in the H<sub>2</sub>S dimer: New insights from experiment and theory*

27.05.2024 WaterX International Workshop (plenary talk)  
333 Circolo Ufficiali della Marina, La Maddalena, Sardinia, Italy  
*THz Calorimetry: A conceptional framework for a molecular understanding of solvation entropy and enthalpy*

## 2023

30.11.2023 Nevada Distinguished Physical Chemistry Lectures  
332 Knowledge Center Wells Fargo Auditorium, University of Nevada, Reno, NV, USA  
*Announcing the Oscar for Best Supporting Actor: Water*

- 29.11.2023 Nevada Distinguished Physical Chemistry Lectures  
331 Department of Chemistry, University of Nevada, Reno, NV, USA  
*Probing free energy in reactions by THz spectroscopy – Ask the water!*
- 10.11.2023 Nanofluidic Seminar (virtual talk), hosted by Center for Enhanced Nanofluidic  
330 Transport (CENT), Cambridge, MA, USA  
*Probing the solvent-free energy in reactions by THz calorimetry*
- 26.10.2023 CiM-IMPRS Interdisciplinary Graduate School Meeting – Cells in Action  
329 Max Planck Institute for Molecular Biomedicine, Münster  
*Liquid–liquid phase separation? Ask the water!*
- 13.08.2023 266<sup>th</sup> ACS National Meeting "Electrocatalysis for Sustainable Energy: Fundamental,  
328 Applications, & Perspective", San Francisco, CA, USA  
*Stripping away ion hydration shells in electrical double layer formation: Water networks matter*
- 10.08.2023 Symposium on Advances in Photochemistry  
327 London Institute for Advanced Light Technologies, Imperial College London, UK  
*Caught in the act: Optical Pump THz probe allows real-time observation of the solvent response subsequent to photoexcitation*
- 01.08.2023 GRC "Structural, Dynamic and Reactive Properties in the Liquid Phase"  
326 Gordon Research Conference, Holderness, NH, USA  
*THz spectroscopy provides a conceptional framework for a molecular understanding of solvation enthalpy and entropy*
- 26.07.2023 4<sup>th</sup> Aqueous Supramolecular Chemistry Workshop, Bozeman, MT, USA  
325 *Probing free energy in reactions by THz spectroscopy – Ask the water!*
- 26.06.2023 TSRC Workshop "Water Structure, Dynamics and Thermodynamics in Biology"  
324 Telluride Science Research Center (TSRC), Telluride, CO, USA  
*Liquid–liquid phase separation? Ask the water!*
- 06.03.2023 Physics Colloquium, Department of Physics, ETH Zurich, Switzerland  
323 *Probing free energy in reactions by THz spectroscopy - Ask the water*
- 28.02.2023 Symposium on Size Selected Clusters (S<sup>3</sup>C 2023), Sunstar Hotel Davos, Switzerland  
322 *Water solvation, step by step*
- 02.02.2023 Physics Colloquium, Institute of Physics, University of Kassel  
321 *It is water what matters!*
- 2022**
- 24.11.2022 SPO 2022 – 23<sup>rd</sup> International Young Scientists Conference Optics and High  
320 Technology Material Science (virtual plenary talk), hosted by Faculty of Physics, Taras Shevchenko National University of Kyiv, Ukraine  
*Terahertz technology at the frontier of Chemistry*
- 16.09.2022 Annual Meeting: Molecular Liquids at Interfaces  
319 European/Japanese Molecular Liquids Group (EMLG/JMLG), Barcelona, Spain  
*The stressed solvent: THz calorimetry probing the solvent in action*

- 05.09.2022  
318 BDS2022 – 11<sup>th</sup> Conference on Broadband Dielectric Spectroscopy and its Applications, Donostia - San Sebastian, Spain  
*Probing local solvation dynamics*
- 11.08.2022  
317 GRC "Frontiers in Size-Selected Cluster Research: Structure, Reactivity and Dynamics" Gordon Research Conference, Renaissance Tuscany Il Ciocco, Lucca (Barga), Italy  
*Low frequency spectra of water clusters, one by one*
- 06.07.2022  
316 German Chemical Society (GDCh) Colloquium  
Department of Chemical Biology, University of Marburg  
*It is water what matters!*
- 28.06.2022  
315 TSRC Workshop "Hydrophobicity: From Theory, to Simulation, to Experiment" Telluride Science Research Center (TSRC), Telluride, CO, USA  
*Spectroscopic fingerprints of cavity formation and solute insertion as a measure of hydration entropic loss and enthalpic gain*
- 17.06.2022  
314 CECAM Workshop "Challenges of molecular spectroscopy: Theory meets experiment" Lausanne, Switzerland  
*Tunneling in hydrogen bonded clusters: The more excited - the easier?*
- 30.05.2022  
313 SolvATE Meeting of French Research Group on Solvation, Paris, France  
*The stressed solvent: THz calorimetry probing the solvent in action*
- 17.05.2022  
312 XX<sup>th</sup> International Workshop on Quantum Atomic and Molecular Tunneling Systems (QAMTS), Canmore, Alberta, Canada  
*Tunneling in hydrogen bonded clusters: The more excited - the easier?*

## 2021

- 17.12.2021  
311 Pacifichem 2021, Symposium "Advances in Hydrogen Bond Research" (virtual talk) hosted by The Chemical Society of Japan (CSJ), Honolulu, Hawaii, USA  
*Ultracold chemistry under stardust conditions*
- 16.12.2021  
310 Pacifichem 2021, Symposium "Biomolecules at Interfaces Defining the Cellular Environment" (virtual talk), hosted by The Chemical Society of Japan (CSJ), Honolulu, Hawaii, USA  
*Local mutations can serve as a game changer for global protein solvent interaction*
- 23.08.2021  
309 11<sup>th</sup> International Conference on Advanced Vibrational Spectroscopy (ICAVS 11) (virtual talk), hosted by Targi w Krakowie Ltd., Krakow, Poland  
*An isolated water droplet in the aqueous solution of a supramolecular tetrahedral cage as observed by THz spectroscopy*
- 20.08.2021  
308 IUPAC/CCCE Symposium Hydrophobic Effects and Water-Mediated Self-Assembly (virtual talk), hosted by Chemical Institute of Canada, Montreal, Canada  
*Wrapping up hydrophobic hydration – Locality matters*
- 12.07.2021  
307 Protein Dynamics Workshop (virtual talk) hosted by Telluride Science Research Center (TSRC), Telluride, CO, USA  
*The key role of solvent in condensation: Mapping hydration water in liquid-liquid phase-separated FUS*
- 28.06.2021 Water Structure, Dynamics and Thermodynamics in Biology (virtual talk)

- 306 hosted by Telluride Science Research Center (TSRC), Telluride, CO, USA  
*The key role of solvent in condensation and host-guest interaction under nanoconfinement*
- 25.06.2021 Seminar Journée IP2CT2021 (virtual talk)  
 305 hosted by Institut Parisien de Chimie Physique et Théorique (IP2CT), Paris, France  
*Spectroscopy in superfluid helium nanodroplets: "A cool topic"*
- 22.06.2021 Conference on Lasers and Electro-Optics Europe (CLEO/Europe) and the European  
 304 Quantum Electronics Conference (EQEC) 2021 (virtual talk)  
 hosted by The Optical Society (OSA), Munich  
*Nonlinear THz spectroscopy to study the solvent dynamics in water*
- 29.03.2021 Seminar Department of Physics, Freie Universität Berlin (virtual talk)  
 303 hosted by AG Theoretical Bio- and Soft Matter Physics, FU Berlin  
*Proton conduction probed with THz spectroscopy*
- 25.03.2021 DESY CMWS (Centre for Molecular Water Science) Days 2021 (virtual talk)  
 302 hosted by Deutsches Elektronen-Synchrotron DESY, Hamburg  
*It is water what matters*

**2016-2020**

- 18.11.2020 Training Event for the Fellows of the Innovative Training Network PROTON  
 301 (virtual talk), hosted by Universität Linz, Austria  
*Watching the solvent quake – Optical pump THz probe spectroscopy in liquid phase*
- 11.11.2020 45<sup>th</sup> International Conference on Infrared, Millimeter, and Terahertz Waves,  
 300 IRMMW-THz 2020 (virtual talk), hosted from Buffalo, New York, USA  
*Caught in the act: Excited-state proton transfer to the solvent followed in real time by non-linear THz spectroscopy*
- 30.10.2020 Chemistry and Biochemistry Departmental Colloquium at UCSB (virtual talk)  
 299 hosted from Santa Barbara, CA, USA  
*It is water what matters*
- 18.08.2020 ACS Symposium "Biophysical Chemistry in Complex Environments" (virtual talk)  
 298 hosted from San Francisco, CA, USA  
*Mapping hydration water in liquid-liquid phase separated FUS by THz spectroscopy: The role of solvent thermodynamics in biomolecular condensation*
- 25.02.2020 Physical Chemistry Seminar, Department of Chemistry, UC Berkeley, CA, USA  
 297 *It is water what matters – Change in hydrogen network dynamics in real time probed by linear and non-linear THz experiments*
- 17.01.2020 15<sup>th</sup> SOLEIL Users' Meeting, Paris, France  
 296 *THz measurements to study solvation under extreme conditions*
- 29.11.2019 Physikalisches Kolloquium, Universität Heidelberg  
 295 *Die unterschätzte Rolle des Wassers bei biologischen Prozessen - der THz Tanz des Wassers*
- 12.11.2019 The 12<sup>th</sup> Intl. Photonics and OptoElectronics Meetings, POEM 2019, Wuhan, China  
 294 *Observing the solvent quake by (non) linear THz spectroscopy*

- 30.07.2019 The 14<sup>th</sup> Femtochemistry Conference, FEMTO 14, Shanghai, China  
293 *Studying solvation of photoexcited pyranine by non-linear THz spectroscopy*
- 18.06.2019 Workshop on Water structure, Dynamics and Thermodynamics in Biology  
292 Telluride, CO, USA  
*Wrapping up hydrophobic hydration – locality matters*
- 21.05.2019 WE-Heraeus Seminar Quantum Fluid Clusters 2019, Bad Honnef  
291 *Acid solvations versus dissociation at “Stardust conditions”: Reaction sequence Matters*
- 13.12.2018 Intl. Conference in Complex & Functional Materials (ICCFM 2018) Kolkata, India  
290 *Studying solvation of photoexcited pyranine by non-linear THz spectroscopy*
- 18.09.2018 Biennial Meeting of the German Biophysical Society, Düsseldorf  
289 *Water in biology*
- 13.09.2018 Keynote speaker at IRMMW-THz 2018, Nagoya, Japan  
288 *Catching a glimpse of transient “ferroelectric” water and ultrafast solvent rearrangement by nonlinear THz spectroscopy*
- 04.09.2018 10<sup>th</sup> Intl. Meeting on Photodynamics and related aspects (IMPRA)  
287 Cartagena, Colombia  
*Studying solvation dynamics of photo-excited solutes by non-linear THz spectroscopy*
- 07.06.2018 9th Intl. Meeting on Atomic and Molecular Physics and Chemistry (IMAMPC-2018)  
286 Helmholtz Zentrum Berlin  
*It is water what matters*
- 17.05.2018 GDCh-Kolloquium Universität Tübingen  
285 *It is water what matters*
- 20.04.2018 Kolloquium Universität Hamburg  
284 *It is water what matters*
- 04.03.2018 Austin Symposium on Molecular Structure and Dynamics, Dallas, Texas, USA  
283 *Stepwise Solvation at Ultracold Temperature*
- 04.10.2017 8<sup>th</sup> Intl. THz-Bio Workshop, ENEA Frascati, Italy  
282 *Water mapping by THz calorimetry or where spectroscopy meets calorimetry*
- 30.09.2017 Physikerinnentagung 2017, Ilmenau  
281 *It is water – what matters*
- 31.07.2017 Workshop on Protein Dynamics, Telluride Science Research Center, CO, USA  
280 *Water mapping by THz calorimetry*
- 28.06.2017 Workshop on Challenges in dissecting and understanding nuclear acid electrostatics  
279 Telluride Science Research Center, CO, USA  
*Ion hydration as probed by THz spectroscopy*
- 03.05.2017 Kolloquium Helmholtz-Zentrum Dresden-Rossendorf  
278 *It is water what matters: THz Spektroskopie – eine neue Methode zur Untersuchung von Solvationsprozessen*
- 24.02.2017 Joint meeting German and Czech Biophysicists, Kloster Hünfeld  
277 *THz calorimetry in biophysics*

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|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 03.02.2017<br>276 | Sonderkolloquium Rheinische Friedrich-Wilhelms-Universität Bonn<br><i>"Völlig losgelöst"</i>                                                                                                          |
| 08.12.2016<br>275 | Photonics 2016 (plenary talk), Kanpur, India<br><i>It is water what matters: THz absorption spectroscopy as a new tool to study solvation dynamics</i>                                                |
| 01.12.2016<br>274 | CECAM workshop Wien, Austria<br><i>THz spectroscopy and Solvation Science</i>                                                                                                                         |
| 22.11.2016<br>273 | ISAS-Kolloquium Berlin<br><i>THz spectroscopy and Solvation Science</i>                                                                                                                               |
| 24.10.2016<br>272 | Dortmunder Gambrinus Forum<br><i>"Völlig losgelöst" Der THz-Tanz des Wassers</i>                                                                                                                      |
| 28.10.2016<br>271 | Reedijk Symposium 2016, Leiden, Netherlands<br><i>Solvation Science – THz spectroscopy provides new answers to an old topic</i>                                                                       |
| 21.10.2016<br>270 | 24 <sup>th</sup> Solvay Conference in Chemistry, Solvay Institute Bruxelles, Belgium<br><i>Water mapping in enzymatic catalysis by THz spectroscopy (THz calorimetry)</i>                             |
| 03.10.2016<br>269 | Workshop Bio THz Göteborg, Sweden<br><i>It is water what matters – THz spectroscopy as a new tool to study biomolecular hydration</i>                                                                 |
| 02.08.2016<br>268 | Gordon Research Conference, Holderness, NH, USA<br><i>Introduction to THz calorimetry: Hydration of hydrophobic surfaces</i>                                                                          |
| 13.07.2016<br>267 | Physikalisches Kolloquium, Universität Duisburg-Essen<br><i>THz spectroscopy and THz calorimetry as a novel tool in solvation science</i>                                                             |
| 14.06.2016<br>266 | Colloquium, Universität Innsbruck, Austria<br><i>It is water which matters: from Ion hydration to THz calorimetry</i>                                                                                 |
| 28.04.2016<br>265 | Kolloquium, ISAS Dortmund<br><i>It is water what matters – THz spectroscopy as a new tool to study biomolecular hydration</i>                                                                         |
| 08.04.2016<br>264 | FYSICA 2016, Radboud University, Nijmegen, Netherlands<br><i>Transient THz spectroscopy probes large amplitude motions of proteins and collective low frequency protein/hydration modes</i>           |
| 04.04.2016<br>263 | Workshop on Protein Dynamics TSRC Konferenz, Les Houches, France<br><i>Transient THz spectroscopy probes large amplitude motions of proteins and collective low frequency protein/hydration modes</i> |
| 14.03.2016<br>262 | ACS 251 <sup>st</sup> National Meeting, San Diego, CA, USA<br><i>Transient THz spectroscopy probes large amplitude motions of proteins and collective low frequency protein/hydration modes</i>       |
| 10.03.2016<br>261 | DPG Frühjahrstagung Regensburg<br><i>It is water what matters: THz absorption spectroscopy as a new tool to study solvation dynamics</i>                                                              |
| 06.03.2016        | Austin Symposium, Dallas, TX, USA                                                                                                                                                                     |

- 260 *Transient THz spectroscopy probes large amplitude motions of proteins and collective low frequency protein/hydration modes*
- 20.01.2016 Kolloquium anlässlich des 80sten Geburtstags von Giacinto Scoles, ICTP Trieste, Italy  
259 *It is water that matters: Spectroscopy probes solvation dynamics*
- 15.01.2016 Center of NanoScience (CeNS Kolloquium), LMU München  
258 *It is water what matters – THz spectroscopy as a tool to study the role of water in biomolecular function*
- 11.01.2016 MUST Annual meeting, Engelberg, Switzerland  
257 *1. Closing the THz gap: experimentally and theoretically*  
256 *2. Application to solvation science: Ion hydration and biomolecular solvation*

## 2011-2015

- 19.12.2015 Pacifichem, Honolulu, HI, USA  
255 *1. THz time domain studies of water entrapped in micelles*  
254 *2. Microsolvation at 0.37 K: IR spectroscopic studies of aggregates in superfluid helium nanodroplets*
- 19.12.2015 Pacifichem, Honolulu, HI, USA  
253 *It is water what matters: THz absorption spectroscopy as a powerful tool to study biomolecular hydration*
- 14.10.2015 iCOMET, Chengdu, China  
252 *It is water what matters: THz-absorption spectroscopy as a new tool to study solvation dynamics*
- 29.09.2015 Intl. Symposium "Assessing the future of physical Chemistry", Berlin  
251 *It is water what matters: The role of water in Enzymatic Catalysis*
- 26.08.2015 IRMMW-THz Conference, Hong Kong  
250 *It is water what matters: THz-absorption spectroscopy as a new tool to study solvation dynamics*
- 06.08.2015 Protein Dynamics Conference, Telluride Science Research Center, CO, USA  
249 *The hydrophobic collapse as probed by Kinetic THz absorption spectroscopy*
- 30.06.2015 GDCh Kolloquium, RWTH Aachen  
248 *Exploring "Solvation Science" THz-spectroscopy as a tool to study solvation dynamics*
- 22.06.2015 Intl. Symposium on Molecular Spectroscopy (plenary talk), Urbana-Champaign, IL, USA  
247 *It is water what matters: THz spectroscopy as a tool to study hydration dynamics*
- 18.05.2015 50 Jahre 50 Vorträge, Ruhr-Universität Bochum  
246 *Es kommt auf das Lösungsmittel an*
- 15.05.2015 Women's Networking Lunch, Bunsentagung 2015, Bochum  
245 *Why are we still few on the top? Dreams to be realized*
- 11.05.2015 Seminarvortrag, UC Berkeley, CA, USA  
244 *It is water what matters: New insights by THz absorption spectroscopy into the role of water in biological function*

- 23.04.2015 GDCh Kolloquium, Karlsruhe  
243 *It is water that matters: THz absorption studies as a tool to study biomolecular hydration*
- 16.04.2015 Tulip VI Summer School, Noordwijk, Netherlands  
242 *Terahertz Spectroscopy 2*
- 15.04.2015 Tulip VI Summer School, Noordwijk, Netherlands  
241 *Terahertz Spectroscopy 1*
- 24.03.2015 Seminarvortrag Elettra, Trieste, Italy  
240 *It is water what matters: THz absorption spectroscopy as a new tool to study solvation dynamics*
- 20.02.2015 Spectroscopy and Dynamics of Molecules and Clusters (SDMC) 2015, Nainital, India  
239 *Exploring solvation science – spectroscopy as a tool to study solvation dynamics*
- 17.02.2015 Colloquium Indian Institute of Technology, Bangalore, India  
238 *It is water which matters: studying microsolvation by IR and THz spectroscopy*
- 12.01.2015 Kolloquium, SFB 1078, FU Berlin  
237 *New insights into the role of water in biological function: Terahertz absorption spectroscopy studies of the solvation dynamics of biomolecules*
- 03.10.2014 Colloquium, UC Davies, CA, USA  
236 *New insights into the role of water in biological function: Terahertz absorption spectroscopy studies of the solvation dynamics of biomolecules*
- 30.09.2014 Miller lunch talk, Berkeley, CA, USA  
235 *It is water which matters: studying microsolvation by IR and THz spectroscopy*
- 23.09.2014 Seminarvortrag, UC Berkely, CA, USA  
234 *Solvation – new answers to an old problem: Using THz spectroscopy to gain new insights into the role of water in biological function*
- 11.09.2014 Specmo 2014, Marana Center, Corsica, France  
233 *THz absorption spectroscopy a new tool to study solvation processes*
- 07.08.2014 Gordon Research Conference Vibrational Spectroscopy, Biddeford, ME, USA  
232 *Rapid kinetic THz absorption spectroscopy: Following changes in the coupled protein-hydration dynamics in the real time*
- 10.07.2014 Workshop on Interfacial molecular and electronic structure and dynamics, Telluride Science Research Center, CO, USA  
231
- 02.07.2014 Laser Application and Life Sciences Conference, Ulm  
230 *Some like it cool – THz absorption as a tool to study biomolecular hydration*
- 05.06.2014 Water 2014 workshop, Les Houches, France  
229 *Some like it cool - THz absorption spectroscopy of antifreeze proteins*
- 19.05.2014 Workshop on Protein Dynamics TSRC Konferenz, Les Houches, France  
228 *Some like it cool - THz absorption spectroscopy of antifreeze proteins*
- 25.04.2014 Lecture series, ETH Zürich, Switzerland  
227 *Some like it cool – THz absorption spectroscopy of AFP*

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|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 25.04.2014<br>226 | Lecture series, ETH Zürich, Switzerland<br><i>THz vibrational signatures of hydrated ions</i>                                                                                                  |
| 24.04.2014<br>225 | Kolloquium, Universität Bern, Switzerland<br><i>It is water which matters: Observing the rattling modes of ions in the THz range</i>                                                           |
| 22.04.2014<br>224 | Lecture series, ETH Zürich, Switzerland<br><i>Solvation – new answers to an old problem: THz spectroscopy as a new spectroscopic tool to probe hydration</i>                                   |
| 22.04.2014<br>223 | Lecture series, ETH Zürich, Switzerland<br><i>Introduction to the tools: Experimental and simulation</i>                                                                                       |
| 03.04.2014<br>222 | 5th THz-Bio Workshop Seoul, Korea<br><i>Observing the rattling modes of ions in the THz range</i>                                                                                              |
| 02.04.2014<br>221 | 5 <sup>th</sup> THz-Bio Workshop Seoul, Korea<br><i>Introduction into THz spectroscopy as a tool to probe hydration dynamics</i>                                                               |
| 25.03.2014<br>220 | IMM Colloquium, Radboud University, Nijmegen, Netherlands<br><i>It is water that matters. THz absorption studies – a new tool to study biomolecular hydration</i>                              |
| 20.03.2014<br>219 | Kolloquium, Universität Wien, Austria<br><i>Some like it cool - the role of water in biological function</i>                                                                                   |
| 14.03.2014<br>218 | Workshop on Adsorption of ions at solid-electrolyte interfaces, Leiden<br><i>Ion Solvation – new answers to an old problem</i>                                                                 |
| 22.01.2014<br>217 | AirUCI Workshop, Laguna Beach, CA, USA<br><i>Solvation - new insights by THz spectroscopy</i>                                                                                                  |
| 05.01.2014<br>216 | RSC Spectroscopy and Dynamics Meeting, University of Oxford, UK<br><i>Solvation - new answers to an old problem</i>                                                                            |
| 26.09.2013<br>215 | Black Forest Focus Conference, Saig, Schwarzwald<br><i>Some like it cool - THz absorption studies of anti-freeze proteins</i>                                                                  |
| 16.09.2013<br>214 | 20 <sup>th</sup> Intl. Conference on Horizons in Hydrogen Bond Research, Antwerp, Belgium<br><i>Rock and roll at 0.35 K</i>                                                                    |
| 30.08.2013<br>213 | 23 <sup>rd</sup> Colloquium on High Resolution Molecular Spectroscopy, HRMS 2013, Budapest, Hungary<br><i>Rock and roll at 0.37 K - high-resolution spectroscopy of microsolvated clusters</i> |
| 06.08.2013<br>212 | Protein Dynamics Workshop, Telluride Science Research Center, CO, USA<br><i>Some like it cool - Anti Freeze Proteins</i>                                                                       |
| 26.07.2013<br>211 | Workshop on Vibrational Dynamics, Telluride Science Research Center, CO, USA<br><i>Solvation of anions and cations observed in the IR and the THz range</i>                                    |
| 19.06.2013<br>210 | Oberseminar "Ultrakurzzeitspektroskopie", LMU München<br><i>The role of water in biological processes</i>                                                                                      |
| 19.06.2013<br>209 | Quantum Fluid Clusters 2013, Regensburg<br><i>Ultracold Chemistry Aggregation and Microsolvation at 0.37 K</i>                                                                                 |
| 10.05.2013        | Bunsentagung 2013, KIT, Karlsruhe                                                                                                                                                              |

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| 208        | <i>The THz dance of water with bio-molecules</i>                                                              |
| 02.05.2013 | FELIX Kick-off Meeting, Radboud University Nijmegen, Netherlands                                              |
| 207        | <i>Probing the role of water in biological processes by kinetic THz absorption spectroscopy (KITA)</i>        |
| 03.04.2013 | OTST 2013, Kyoto, Japan                                                                                       |
| 206        | <i>The Terahertz vibrational signatures of hydrated ions</i>                                                  |
| 01.04.2013 | Tutorial, OTST 2013, Kyoto, Japan                                                                             |
| 205        | <i>The THz dance of water with bio-molecules</i>                                                              |
| 15.02.2013 | 4 <sup>th</sup> THz-Bio Workshop, Seoul, Korea                                                                |
| 204        | <i>Fast solvation dynamics detected by THz spectroscopy</i>                                                   |
| 06.02.2013 | Phononics West, SPIE Conference 2013, San Francisco, CA, USA                                                  |
| 203        | <i>Watching the dance of ions and molecules in the THz</i>                                                    |
| 25.01.2013 | Kolloquium, Radboud University Nijmegen, Netherlands                                                          |
| 202        | <i>From FIR to THz spectroscopy - from the gas phase to the liquid phase</i>                                  |
| 14.01.2013 | Colloquium, Institute for Sciences and Technology (IST), Klosterneuburg, Austria                              |
| 201        | <i>Solvation – new answers to an old problem</i>                                                              |
| 08.01.2013 | Societas Emeritorium Emeritarumque, Ruhr-Universität Bochum                                                   |
| 200        | <i>Das Prinzip aller Dinge ist das Lösungsmittel</i>                                                          |
| 19.12.2012 | Winter School in Theoretical Chemistry 2012, Helsinki, Finland                                                |
| 199        | <i>1. The THz dance of water - describing hydrogen network dynamics</i>                                       |
| 198        | <i>2. The THz dance of water - experimental access to hydrogen network dynamics</i>                           |
| 21.11.2012 | Kolloquium, Fritz-Haber-Institut Berlin                                                                       |
| 197        | <i>Water at interfaces - solvation of ions and proteins</i>                                                   |
| 01.10.2012 | Polydays 2012, Berlin                                                                                         |
| 196        | <i>THz spectroscopy: A novel experimental tool to study water network dynamics</i>                            |
| 21.08.2012 | 244 <sup>th</sup> ACS meeting, Philadelphia, PA, USA                                                          |
| 195        | <i>Watching the dance of water in the hydration shell of ions and biomolecules in the THz frequency range</i> |
| 02.07.2012 | GDCh Kolloquium, TU Berlin                                                                                    |
| 194        | <i>Der THz Tanz des Wassers mit den Biomolekülen</i>                                                          |
| 30.05.2012 | FOR 618 Symposium Bochum                                                                                      |
| 193        | <i>Rock and Roll at 0.35 K</i>                                                                                |
| 20.05.2012 | German-Russian Conference on Fundamentals and Application of Nanoscience, Berlin                              |
| 192        | <i>Chemical imaging with nm resolution</i>                                                                    |
| 16.04.2012 | GDCh Kolloquium TU Braunschweig                                                                               |
| 191        | <i>Der THz Tanz des Wassers mit den Proteinen</i>                                                             |
| 26.03.2012 | ACS National Meeting, San Diego, CA, USA                                                                      |
| 190        | <i>Correlated structural kinetics and retarded solvent dynamics at the metalloprotease active site</i>        |
| 15.03.2012 | DPG Frühjahrstagung (Plenarvortrag), Stuttgart                                                                |

- 189 *THz Spectroscopy: A novel experimental tool to study water network dynamics*
- 01.02.2012 Gordon Research Conference on Molecular & Ionic Clusters Ventura, CA, USA
- 188 *Rock and roll at 0.37 K - High resolution IR spectroscopy of ultracold molecular cluster*
- 08.01.2012 Meeting of the Excellence Cluster MUST – Lenk 2012, Switzerland
- 187 *Watching the THz dance of water in the hydration shells of ions and biomolecules*
- 05.12.2011 Hebrew University Jerusalem, Israel
- 186 *Watching the THz dance of water in the hydration shells of ions and biomolecules*
- 04.12.2011 Seminarvortrag - Clore-Biophysics series - Weizmann Institute, Rehovot, Israel
- 185 *THz spectroscopy: a novel tool to study water network dynamics*
- 30.11.2011 Workshop "Perspective in THz spectroscopy with neutrons" Helmholtz Zentrum Berlin
- 184 *What is the role of the solvent in biological function? A new THz look at an old question*
- 18.11.2011 DESY Photon Science Seminar, Hamburg
- 183 *Watching the dance of water in the hydration shell of ions and biomolecules in the THz frequency range*
- 08.11.2011 Colloquium, Yale University, New Haven, CT, USA
- 182 *What is the role of the solvent in biological function? A new THz look at an old question*
- 10.10.2011 ICTP-KFAS Conference on Nanotechnology for Biological and Biomedical Applications, Trieste, Italy
- 181 *The role of water in enzymatic reactions - THz spectroscopy as a tool to probe solvation dynamics*
- 01.08.2011 Gordon Research Conference on Biological Molecules in the Gas Phase & in Solution, Andover, NH, USA
- 180 *The THz dance of biomolecules in solution*
- 29.07.2011 Workshop on Vibrational Dynamics, Telluride Science Research Center, CO, USA
- 179 *Correlated structural kinetics and retarded solvent dynamics at the metalloprotease active site*
- 05.07.2011 Hydroprot 2011 Conference, Paris, France
- 178 *Watching the dance of ions and molecules in the THz*
- 15.06.2011 Physikalisch-Chemisches Kolloquium, LMU München
- 177 *Detecting the chemical fingerprint in soft matter: From DNA bio nanochips to the study of ion solvation*
- 07.06.2011 Vortrag im Rahmen der Chemischen Gesellschaft zu Heidelberg
- 176 *Ein neues Frequenzfenster öffnet sich: Vom THz Tanz des Wassers mit den Proteinen bis zum Rasseln des Ions mit seiner Hydrathülle*
- 07.06.2011 Conference on "Teaching is touching the future: from vision to practice", Ruhr-Universität Bochum
- 175 *Visionen lokal! Der internationale Masterstudiengang Molecular Sciences and Simulation*

- 31.05.2011 482. WE Heraeus-Seminar: Helium-Nanodroplets – Confinement for cold molecules  
174 and cold chemistry, Bad Honnef  
*Rock and Roll at 0.37 K*
- 22.05.2011 Conference on Lasers and Electro-Optic Europe, München  
173 *Watching the dance of ions and molecules in the THz*
- 30.04.2011 3<sup>rd</sup> Meeting "From the witches cauldrons in materials science", Goslar  
172 *Mapping chemical surfaces by IR nanoscopy*
- 07.04.2011 Faraday Discussion 150 Frontiers in Spectroscopy, Basel, Switzerland  
171 *The THz dance of the protein with the water*
- 04.04.2011 Workshop on Water, Max-Born-Institut Berlin  
170 *Watching the dance of ions and molecules in the THz*
- 21.03.2011 Kolloquium, ETH Zürich, Switzerland  
169 *Watching the dance of ions and molecules in the THz*
- 21.01.2011 Kolloquium, Universität Würzburg  
168 *Solvatation im Detail verstanden: Von einzelner Ion bis zum Protein*
- 20.01.2011 Universität Würzburg  
167 *Der THz Tanz des Wassers*

**2006-2010**

- 02.12.2010 2<sup>nd</sup> Intl. Conference on "Transient Chemical Structures in Dense media", Paris, France  
166 *Dynamics of water molecule around proteins*
- 01.11.2010 1<sup>st</sup> German-Russian Symposium in Nanomaterials – New Horizons, Moscow, Russia  
165 *Chemical nanoscopy of surfaces and at interfaces*
- 13.09.2010 Advanced Laser Technologies Conference ALT'10, Egmond an Zee, Netherlands  
164 *Watching the dance of the water with the protein*
- 10.08.2010 Gordon Research Conference on Water & Aqueous Solutions, Mount Holderness,  
163 NH, USA  
*The THz dance of the water with the protein*
- 19.07.2010 Physikalisches Kolloquium, Ruhr-Universität Bochum  
162 *Rock and roll at 0.37 K*
- 02.07.2010 Kolloquium, Universität Düsseldorf  
161 *Understanding solvation on a molecular scale – An interplay between experiment and solution*
- 15.06.2010 Physikalisches Kolloquium, TU Dortmund  
160 *Rock and Roll at 0,37 K*
- 10.06.2010 Intl. Conference on Laser Applications in Life Sciences, Oulu, Finland  
159 *The THz dance of the protein with the water*
- 21.04.2010 456. WE Heraeus-Seminar: THz radiation: generation, detection and applications,  
158 Bad Honnef  
*Watching the dance of the protein with the water*

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- 16.04.2010      Physikalisches Kolloquium, Universität Osnabrück, Austria  
157              *Challenges in IR-Spectroscopy: From microsolvation towards chemical fingerprints of nanostructured surfaces*
- 09.03.2010      THz Bio Workshop and Center opening ceremony, Seoul, Korea  
156              *The THz dance of the protein with the water*
- 08.02.2010      PhandTA 11, Innsbruck  
155              *The THz dance of the protein with water*
- 24.01.2010      Photonics West, SPIE Conference 2010, San Francisco, CA, USA  
154              *THz spectroscopy as a new tool to probe hydration dynamics*
- 12.01.2010      Water at Interfaces Conference, Institute of Advanced Study, Durham, UK  
153              *The THz dance of the water with the protein*
- 17.12.2009      1<sup>st</sup> Workshop on TBONE Experiments and Applications, Karlsruhe  
152              *Scanning near field infrared microscopy: Chemical Imaging on a nm scale*
- 01.12.2009      Intl. Workshop TeraTech09, Osaka, Japan  
151              *The THz dance of the water with the protein*
- 19.11.2009      Physikalisches Kolloquium, Universität Rostock  
150              *Ultrakalte Chemie: Höchstaufgelöste Spektroskopie im Helium-Nanotröpfchen*
- 07.11.2009      Physikerinnen-Tagung der DPG, Frankfurt  
149              *Chemie bei ultrakalten Temperaturen: Beobachtung des kleinsten Tropfens Säure*
- 26.10.2009      Conference on Structure and Dynamics of Hydrogen-bonded systems, ICTP, Trieste, Italy  
148              *Aggregation induced dissociation of HCl (H<sub>2</sub>O)<sub>4</sub> below 1 K: The smallest droplet of acid*
- 15.09.2009      20<sup>th</sup> Intl. Congress on X-ray optics and microanalysis, Karlsruhe  
147              *Scanning nearfield microscopy: Chemical imaging on a nm scale*
- 08.09.2009      Physikalisches Kolloquium, Universität Göteborg, Sweden  
146              *Chemistry below 1 K: Observation of the smallest droplet of acid*
- 28.08.2009      SEADIM7 Conference, Varadero, Cuba  
145              *Laser spectroscopy as a tool to study solvation: From the smallest droplet of acid towards the THz dance of the protein with the water*
- 04.08.2009      Protein Dynamics Workshop, Telluride Science Research Center, CO, USA  
144              *The THz dance of the water with the protein: Direct observation of collective solvent protein network motions*
- 20.07.2009      Vibrational Dynamics Workshop, Telluride Science Research Center, CO, USA  
143              *Chemistry below 1 K: Observation of the smallest droplet of acid*
- 13.07.2009      Kolloquium, TU München  
142              *From the smallest droplet of acid towards the THz dance of the protein with the water*
- 10.07.2009      41<sup>st</sup> EGAS 2009, Danzig, Poland  
141              *Chemistry at ultracold temperatures: Observation of the smallest droplet of acid*
- 27.05.2009      Intl. workshop on Quantum Fluid Clusters, MPIKS, Dresden  
140              *Aggregation induced dissociation of HCl(H<sub>2</sub>O)<sub>4</sub> below 1 K: The smallest droplet of acid*

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|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 23.05.2009<br>139 | Protein-Protein-Interactions: Experiment and Theory, Deutsche Gesellschaft für Biophysik, Hünfeld<br><i>The THz dance of the protein with the water</i>                      |
| 11.05.2009<br>138 | Protein and Water workshop, Tempe, AZ, USA<br><i>The THz dance of the water with the protein</i>                                                                             |
| 15.04.2009<br>137 | Purdue University, West Lafayette, IN, USA<br><i>Understanding solvation dynamics: From the smallest droplet of acid towards the THz dance of the protein with the water</i> |
| 20.03.2009<br>136 | 4 <sup>th</sup> Ringberg Meeting on Molecular Physics 2009, Schloß Ringberg, Kreuth<br><i>The smallest droplet of acid: IR high resolution spectroscopy of solvated HCl</i>  |
| 16.03.2009<br>135 | Symposium, Universität Göttingen<br><i>The THz dance of water with the protein: Direct observation of collective solvent protein network motions</i>                         |
| 09.03.2009<br>134 | Intl. workshop on Optical Terahertz Science, Santa Barbara, CA, USA<br><i>The THz dance of the protein with water</i>                                                        |
| 06.03.2009<br>133 | Emory University, Atlanta, GA, USA<br><i>From fluctuations to function and vice versa: The THz dance of the water with the protein</i>                                       |
| 28.02.2009<br>132 | 53rd Annual Meeting of the Biophysical Society, Boston, MA, USA<br><i>The THz dance of water with the protein</i>                                                            |
| 26.02.2009<br>131 | Workshop Neutrons and X-rays meet biology, Helmholtz Zentrum Berlin<br><i>The THz dance of the water</i>                                                                     |
| 12.02.2009<br>130 | TBONE workshop ANKA, Karlsruhe<br><i>The THz dance of the protein with the water</i>                                                                                         |
| 11.02.2009<br>129 | Kolloquium, Universität Kaiserslautern<br><i>Solvatation neu aufgerollt: Vom kleinsten Säuretropfen bis zur schnellen Solvationsdynamik von Proteinen</i>                    |
| 28.01.2009<br>128 | Ultrafast Biochemistry Workshop, Basel, Switzerland<br><i>Terahertz excitation of biomolecules</i>                                                                           |
| 20.01.2009<br>127 | Kolloquium, Universität Stuttgart<br><i>Vom kleinsten Säuretropfen bis zum THz Tanz des Wassers mit den Proteinen</i>                                                        |
| 17.12.2008<br>126 | Laser centre symposium 2008, Vrije Universiteit Amsterdam, Netherlands<br><i>The THz dance of the protein with the water</i>                                                 |
| 15.12.2008<br>125 | Princeton, NJ, USA<br><i>Introduction to Spectroscopy in ultracold Helium nanodroplets</i>                                                                                   |
| 08.11.2008<br>124 | Alexander von Humboldt-Kolloquium, Varanasi, India<br><i>The THz dance of the protein with the water</i>                                                                     |
| 29.10.2008<br>123 | AMO physics section meeting of the Dutch Physics Society, Lunteren, Netherlands<br><i>The THz dance of the protein with the water</i>                                        |
| 24.10.2008        | Kolloquium, Universität Freiburg                                                                                                                                             |

- 122 *Neue Möglichkeiten der IR- und THz-Laserspektroskopie: Chemische Fingerabdrücke nanostrukturierter Oberflächen und der THz Tanz des Wassers*
- 21.10.2008 55<sup>th</sup> AVS Meeting, Boston, MA, USA
- 121 *Vibrational imaging with nm resolution: Scanning Near Field Infrared Microscopy (SNIM) on surfaces*
- 29.09.2008 European Optical Society (EOS) meeting, Paris, France
- 120 *Scanning near field infrared microscopy (SNIM): Combining topographical and optical information*
- 25.09.2008 Intchem Summer School und Forschergruppe 618-Workshop, Leśna, Poland
- 119 *Microsolvation of acids studied at ultracold temperatures*
- 28.08.2008 The Royal Society of Chemistry Faraday Discussion 141: Water - From Interfaces to the Bulk, Edinburgh, Scotland
- 118 *The Terahertz dance of water with the proteins: The effect of protein flexibility on the dynamical hydration shell of ubiquitin*
- 15.08.2008 33<sup>rd</sup> Intl. Conference on Infrared, Millimeter, and Terahertz Waves (keynote talk), Pasadena, CA, USA
- 117 *The THz dance of water with the protein*
- 06.08.2008 Gordon Research Conference on Vibrational Spectroscopy, South Hadley, MA, USA
- 116 *High resolution laser spectroscopy of molecular aggregates in superfluid helium nanodroplets: The smallest droplet of acid*
- 11.06.2008 Graduiertenkolleg-Kolloquium FU Berlin
- 115 *THz dance of the water with biomolecules*
- 27.05.2008 Workshop on Bionanointerfaces, Portoroz, Croatia
- 114 *The THz and IR look on surfaces and interfaces*
- 21.05.2008 Verleihung des Erfinderpreises 2007 der rubitec GmbH, Bochum
- 113 *Entwicklung eines neuartigen Mikro-/Nanoskops*
- 16.04.2008 Eduard-Zintel-Kolloquium, TU Darmstadt
- 112 *Der "THz-Tanz" des Wassers mit den Biomolekülen*
- 03.04.2008 Analytica Konferenz, München
- 111 *Der THz Tanz des Wassers mit den Proteinen*
- 27.02.2008 2<sup>nd</sup> Intl. Conference on Perspectives in Vibrational Spectroscopy (ICOPVS 2008), Trivandrum, India
- 110 *The THz dance of the water with biomolecules*
- 11.02.2008 Winter College on Micro and Nano Photonics for Life Sciences, Trieste, Italy
- 109 *IR nearfield microscopy: principles and applications*
- 28.01.2008 GdCH-Kolloquium, Universität Regensburg
- 108 *Von der Mikrosolvatation bis zum "THz-Tanz" der Proteine*
- 18.12.2007 Kolloquium, Universität Münster
- 107 *A closer look on surfaces and interfaces by IR- and THz laser spectroscopy*
- 10.12.2007 Meeting on Biomolecules investigated with UV and THz spectroscopy, Nijmegen, Netherlands
- 106

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|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <i>The THz dance of the water with biomolecules</i>                                                                                                                                   |
| 03.12.2007 | Kolloquium, Universität Bonn                                                                                                                                                          |
| 105        | <i>Ein mikroskopischer Blick auf Biomoleküle: Vom IR-Nahfeldblick auf Lipide bis zum Tanz des Wasser mit den Proteinen</i>                                                            |
| 13.11.2007 | Kolloquium, MPI für Eisenforschung, Mülheim                                                                                                                                           |
| 104        | <i>A closer look on surfaces and interfaces by IR- and THz laser spectroscopy</i>                                                                                                     |
| 08.11.2007 | Seminarvortrag, Universität Zürich, Switzerland                                                                                                                                       |
| 103        | <i>The THz dance of water with biomolecules</i>                                                                                                                                       |
| 18.10.2007 | Kolloquium, Freiburger Physiktage, Universität Freiburg                                                                                                                               |
| 102        | <i>Der THz-Tanz des Wassers mit den Biomolekülen</i>                                                                                                                                  |
| 14.08.2007 | 29 <sup>th</sup> Intl. Symposium on Free Radicals, Big Sky, MT, USA                                                                                                                   |
| 101        | <i>High resolution infrared spectroscopy of molecules in helium nanodroplets: Observation of radicals and aggregation processes at ultralow temperatures</i>                          |
| 04.08.2007 | Intl. Symposium "Topical Problems of Biophotonics 2007" Nizhny Novgorod, Russia                                                                                                       |
| 100        | <i>The THz dance of water with biomolecules</i>                                                                                                                                       |
| 31.07.2007 | Workshop on Protein dynamics, Telluride Science Research Center, CO, USA                                                                                                              |
| 099        | <i>The THz dance of the protein with the water</i>                                                                                                                                    |
| 11.07.2007 | Seminar am MPI für molekulare Physiologie, Dortmund                                                                                                                                   |
| 098        | <i>New perspectives of IR- and THz spectroscopy of biomolecules: From chemical nanoscopy of lipids to the THz dance of the water with the protein solvation water around proteins</i> |
| 09.07.2007 | Conference on Tunable Diode Laser Spectroscopy, Reims, Frankreich                                                                                                                     |
| 097        | <i>IR spectroscopy in ultracold heliumnanodroplets</i>                                                                                                                                |
| 04.05.2007 | Physikalisches Kolloquium, Universität Heidelberg                                                                                                                                     |
| 096        | <i>Was "sehen" wir mithilfe der IR- und THz Lasertechnologie?</i>                                                                                                                     |
| 16.04.2007 | Spring College on "Water in Physics, Chemistry and Biology", Trieste                                                                                                                  |
| 095        | <i>1. Probing solvation dynamics in the sub-psec regime: Experimental probes</i>                                                                                                      |
| 094        | <i>2. Probing solvation dynamics in the sub-psec regime by THz spectroscopy</i>                                                                                                       |
| 10.04.2007 | Rundgespräch der DFG "Cold Reaction Dynamics" Physikzentrum Bad Honnef                                                                                                                |
| 093        | <i>Mikrosolvatation und -aggregation in ultrakalten Heliumnanotröpfchen</i>                                                                                                           |
| 29.03.2007 | 233 <sup>rd</sup> American Chemical Society Meeting, Symposium on Vibrational Spectroscopy as a Probe of Biomolecular Structure and Dynamics, Chicago, IL, USA                        |
| 092        | <i>The THz dance of the water with the protein</i>                                                                                                                                    |
| 20.03.2007 | Workshop spectroscopy of biomolecules, DELTA, Dortmund                                                                                                                                |
| 091        | <i>Scanning nearfield infrared microscopy: Chemical imaging with nm resolution</i>                                                                                                    |
| 06.03.2007 | Terahertz-Spektroskopie College Tag, Göttingen                                                                                                                                        |
| 090        | <i>Der THz Tanz des Wassers mit Biomolekülen</i>                                                                                                                                      |
| 07.02.2007 | Nordrhein-Westfälische Akademie der Wissenschaften, Düsseldorf                                                                                                                        |
| 089        | <i>Auf der Suche nach dem "chemischen Fingerabdruck": Neue Perspektiven der Infrarot- und THz-Spektroskopie</i>                                                                       |

- 17.01.2007 GDCh Kolloquium, Universität Marburg  
088 *Tunnelnde Protonen und tanzende Wassermoleküle: Ein mikroskopischer Blick durch die IR- und THz-Brille*
- 13.12.2006 Physikalisches Kolloquium, Universität Frankfurt  
087 *Was "sehen" wir mit THz-Technologie? Von solvatisierten Proteinen und tanzenden Wassermolekülen*
- 12.11.2006 53<sup>rd</sup> AVS International Symposium & Exhibition, San Francisco, CA, USA  
086 *THz Technology and its application in the study of hydration layers and thin films*
- 26.10.2006 Conference on the Physics, Chemistry and Biology of Water, Vermont, VT, USA  
085 *Solute-induced retardation of water dynamics probed directly by terahertz spectroscopy*
- 16.10.2006 EOS Annual Meeting 2006, Porte de Versailles - Paris, France  
084 *Scanning infrared near field microscopy: Chemical imaging of subsurface structures and self-assembled monolayers with nm resolution*
- 26.09.2006 Emory University, Atlanta, GA, USA  
083 *THz and IR spectroscopy as a bridge between two worlds: A nanoscopic view of biological phenomena*
- 25.09.2006 Emory University, Atlanta, GA, USA  
082 *A closer look into the world of biomolecules: From the THz dance of water with proteins to chemical images of self-assembled monolayers and cells*
- 08.06.2006 Jahrestagung der Deutschen Gesellschaft für angewandte Optik (plenary talk), Weingarten  
081 *Set-up of a scanning near field infrared microscope (SNIM)*
- 11.05.2006 University of Wisconsin at Madison, WI, USA  
080 *New direction of IR and THz laser spectroscopy: Characterizing of surfaces and hydration shells*
- 03.05.2006 University of Illinois at Urbana-Champaign, IL, USA  
079 *New directions of IR and THz spectroscopy in condensed phase: From the observation of the hydration shell of sugars to the chemical nanoscopy of sub-surface species*
- 01.05.2006 Princeton University, NJ, USA  
078 *New directions of IR and THz spectroscopy: From the hydration shell of sugars and proteins to the IR spectroscopy of sub-surface species at 30 nm resolution*
- 24.04.2006 Emory University and Georgia Tech Institute, Atlanta, GA, USA  
077 *New Directions of IR and THz Laser Spectroscopy: Characterization of Surfaces and Hydration Shells*
- 03.04.2006 Forschungszentrum Karlsruhe  
076 *New directions of IR and THz spectroscopy – From the IR spectroscopy of sub-surface species at 30 nm resolution to the monitoring of the hydration shell of sugars*
- 14.03.2006 Frühjahrstagung der DPG (Plenarvortrag), Frankfurt  
075 *THz-Spektroskopie: Technologische Entwicklungen und ihre Anwendungen in der Biophysikalischen Chemie*
- 20.02.2006 Gordon Research Conference, Ventura, CA, USA

- 074 *Probing phonon-rotational coupling: IR spectroscopy of dopants in helium nanodroplets*
- 27.01.2006 Kolloquium anlässlich des Tags der Chemie, RWTH Aachen
- 073 *Mit dem Laser auf der Suche nach "chemischen Fingerabdrücken": Von tunnelnden Protonen und tanzenden Wassermolekülen*

## 2001-2005

- 06.12.2005 Tag der Biomedizinischen Technik, Ruhr-Universität Bochum
- 072 *Label-free infrared microscopy and nanoscopy*
- 21.11.2005 Workshop "Isolated Biomolecules and Biomolecular Building Blocks", Düsseldorf
- 071 *Aggregation and solvation: Proton transfer and solvens dynamics probed by IR and THz spectroscopy*
- 20.09.2005 Cavity Ring Down User Meeting 2005, Oxford, UK
- 070 *THz cavity-enhanced attenuated total reflection spectroscopy*
- 22.07.2005 Intl. Society of Theoretical and Chemical Physics, New Orleans, LA, USA
- 069 *Aggregation and Solvation: Proton transfer and solvent dynamics probed by IR and THz spectroscopy*
- 20.06.2005 60<sup>th</sup> Intl. Symposium on Molecular Spectroscopy (plenary talk), Columbus, OH, USA
- 068 *Dynamics on hydrogen bonds - perspectives of infrared and far-infrared spectroscopy*
- 20.04.2005 Kolloquium, Universität Würzburg
- 067 *Von der H-Brücke bis zur Proteindynamik: Möglichkeiten und Perspektiven der Infrarot- und THz-Spektroskopie*
- 31.03.2005 WE-Heraeus-Seminar, Bad Honnef
- 066 *Collective excitations in quantum gases: spectroscopy of ultra-cold molecules in superfluid helium droplets*
- 11.01.2005 Kolloquium, Universität Graz, Austria
- 065 *Spektraler Fingerabdruck oder Chemisches Nanoskop: Möglichkeiten der hochauflösenden THz- und Infrarotlaserspektroskopie*
- 20.12.2004 National Spectroscopy Meeting of the Royal Society of Chemistry (plenary talk), University of Leicester, UK
- 064 *From H-bonds to living cells Challenges for IR laser spectroscopy*
- 13.12.2004 Conference on Dynamics of cold Molecules, Weizmann Institute, Tel Aviv, Israel
- 063 *From aggregation to relaxation: IR-spectroscopy of molecules in He-nanodroplets*
- 16.11.2004 Conference on Single Cell Analysis, Universität Münster
- 062 *Towards scanning (near field) infrared laser microscopy of cells*
- 01.10.2004 IRMMW 2004, Karlsruhe
- 061 *Infrared laser microscopy of living cells using a cw optoparametric oscillator as radiation source*
- 26.08.2004 American Chemical Society National Meeting, Philadelphia, PA, USA
- 060 *Probing relaxation in superfluid helium clusters: IR spectroscopy of CO and NO*
- 09.07.2004 Kolloquium, LMU München

- 059 *Proceeding from hydrogen bonds towards protein structures by (Far) infrared laser spectroscopy*
- 21.06.2004 Kolloquium, Universität Kaiserslautern
- 058 *Proceeding from hydrogen bonds toward protein structures by (Far) infrared laser spectroscopy*
- 11.05.2004 Kolloquium, ISAS Dortmund
- 057 *Proceeding from hydrogen bond towards protein structures via (Far) Infrared laser spectroscopy*
- 14.01.2004 Kolloquium, Universität Freiburg
- 056 *Proceeding from hydrogen bonds towards protein structures via (Far) infrared laser spectroscopy*
- 16.12.2003 Kolloquium, Universität Düsseldorf
- 055 *Biophotonik im IR- und THz-Bereich*
- 01.10.2003 39th Symposium on Theoretical Chemistry, Gwatt, Switzerland
- 054 *Hydrogen bonds: New answers to old questions*
- 16.09.2003 Horizons 2003, FU Berlin,
- 053 *Proton tunneling in the formic acid dimer*
- 19.05.2003 Physical-Chemistry Seminar, Oxford, UK
- 052 *From the THz to the IR or: How fast is the proton in formic acid dimer?*
- 30.04.2003 Kolloquium, Universität Frankfurt
- 051 *Methoden der modernen Laserspektroskopie: Vom THz bis zum IR Bereich – Neue Antworten auf alte Fragen*
- 25.03.2003 DPG-Frühjahrstagung, Hannover
- 050 *How fast are protons in double hydrogen bonds?*
- 08.01.2003 Kolloquium, Universität Dresden
- 049 *Laserspektroskopie von Molekülen in Helium-Nanotropfchen: Ungewöhnliche Beobachtungen in einer ultrakalten Matrix*
- 18.11.2002 Kolloquium, Universität Karlsruhe
- 048 *Was lernen wir mithilfe von IR-Laserspektroskopie über Wasserstoffbrückenbindungen?*
- 31.10.2002 Kolloquium, FU Berlin
- 047 *How fast is the proton in double hydrogen bonds? – High resolution spectroscopy of intermolecular complexes*
- 25.07.2002 EURESCO Tagung "Molecules of biological interest in the gas phase", Wildbad Kreuth
- 046 *How fast are protons in double hydrogen bonds?*
- 11.05.2002 Bunsentagung Potsdam
- 045 *Hochauflösende IR-Spektroskopie an Ameisensäuredimer- Ein Prototyp für den doppelten Protonentransfer*
- 10.04.2002 DFG Bonn "Wechselwirkung in ultrakalten Atom- und Molekülgasen"
- 044 *IR-Spectroscopy of molecules in helium: Collective excitations in quantum liquids: spectroscopy of ultracold molecules in supra fluid helium droplets*

- 06.01.2002  
043 Gordon Research Conference, Ventura, CA, USA  
*Introduction to high resolution spectroscopy of clusters*
- 27.06.2001  
042 Intl. Symposium der Volkswagen-Stiftung, Schloß Mickeln, Düsseldorf  
*IR-spectroscopy as a tool for the understanding of hydrogen bonded complexes*
- 26.06.2001  
041 Kolloquium, Universität Dortmund  
*Möglichkeiten der IR-Laserspektroskopie: Von Untersuchungen an H-Brücken bis zu Quantenanregungen in supraflüssigen Heliumtröpfchen*
- 20.03.2001  
040 Kolloquium, Radboud University, Nijmegen, Netherlands  
*What IR spectroscopy tells us about hydrogen bonding?*
- 26.01.2001  
039 Gemeinsames Kolloquium Universität Dortmund und RUB  
*Hochauflösende Laserspektroskopie – Anwendungen und Möglichkeiten*
- 18.01.2001  
038 GDCh-Kolloquium, Universität Wuppertal  
*Was lernen wird mithilfe der Laserspektroskopie über Wasserstoffbrückenbindungen?*

## 1989-2000

- 02.11.2000  
037 GDCh-Kolloquium, Universität Bielefeld  
*Was lernen wird mithilfe der Laserspektroskopie über Wasserstoffbrückenbindungen?*
- 13.10.2000  
036 SFB 334, Bonn  
*IR-Spectroscopy of high lying intermolecular modes of Ar-CO and spectroscopy of formic acid dimer*
- 18.09.2000  
035 Max-Born-Institut Berlin  
*Was lernen wird mithilfe der Laserspektroskopie über H-Brücken?*
- 20.08.2000  
034 200<sup>th</sup> ACS National Meeting, Washington DC, USA  
*Microwave-infrared double resonance spectroscopy of an OCS molecule inside in helium droplet*
- 18.08.2000  
033 Princeton University, NJ, USA  
*Microwave-infrared double resonance spectroscopy of an OCS molecule inside helium droplets*
- 13.07.2000  
032 Universität Konstanz  
*Ar-CO und (NH<sub>3</sub>)<sub>2</sub> - Zwei Prototypen für intermolekulare Wechselwirkung*
- 25.06.2000  
031 Workshop on Quantum fluid clusters, Schloß Ringberg, Kreuth  
*Microwave-infrared double resonance spectroscopy of an OCS molecule inside <sup>4</sup>He droplets*
- 17.06.2000  
030 SFB 452 Workshop, Hattingen  
*Spektroskopie an Molekülen in einer ultraweichen Matrix*
- 05.06.2000  
029 Fakultät für Physik und Astronomie, Universität Bochum  
*Ar-CO und (NH<sub>3</sub>)<sub>2</sub> - Zwei Prototypen für intermolekulare Wechselwirkung*
- 17.04.2000  
028 Gordon Research Conference "Molecular Ionic Cluster", Toulouse, France  
*What does infrared spectroscopy tell us about intermolecular forces?*
- 13.01.2000 Institut für Physikalische Chemie, Universität Göttingen

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|------------|------------------------------------------------------------------------------------------------------------|
| 027        | <i>Was lernen wir mithilfe der Laserspektroskopie über Wasserstoffbrückenbindung?</i>                      |
| 05.11.1999 | Universität Kiel                                                                                           |
| 026        | <i>Was lernen wir mithilfe der Laserspektroskopie über Wasserstoffbrückenbindung?</i>                      |
| 18.06.1999 | Fakultät für Chemie, Ruhr-Universität Bochum, Antrittsvorlesung                                            |
| 025        | <i>Laserspektroskopie: Möglichkeiten und Perspektiven</i>                                                  |
| 26.05.1999 | Konferenz, Niederpöcking                                                                                   |
| 024        | <i>High resolution infrared spectroscopy on hydrogen bonded cluster: Formic acid dimer</i>                 |
| 02.09.1998 | PRAHA '98, Prag, Czech Republic                                                                            |
| 023        | <i>Infrared spectroscopy of hydrogen bonds</i>                                                             |
| 13.05.1998 | Universität Düsseldorf                                                                                     |
| 022        | <i>Spektroskopie als Mittel zum Verständnis der intermolekularen Wechselwirkung</i>                        |
| 19.08.1997 | International Symposium on Free Radicals, Taellberg, Schweden                                              |
| 021        | <i>IR Spectroscopy of Radicals: A tool for the study of vibronic interaction</i>                           |
| 14.05.1997 | Universität Potsdam                                                                                        |
| 020        | <i>Infrarotspektroskopie als Mittel zur Beantwortung von interdisziplinären Fragen</i>                     |
| 22.04.1997 | Ruhr-Universität Bochum                                                                                    |
| 019        | <i>Spektroskopie als Mittel zum Verständnis der intermolekularen Wechselwirkung</i>                        |
| 18.04.1997 | Institut für Physikalische Chemie, TU Braunschweig                                                         |
| 018        | <i>Ar-CO und (NH<sub>3</sub>)<sub>2</sub> - Zwei Prototypen für intermolekulare Wechselwirkung</i>         |
| 17.04.1997 | Institut für Umweltphysik, Universität Osnabrück                                                           |
| 017        | <i>Von interdisziplinären Fragen, intermolekularen Wechselwirkungen und interstellaren Wolken</i>          |
| 02.04.1997 | DFG Berichtskolloquium zum Schwerpunkt "Molekulare Cluster"                                                |
| 016        | <i>Ar-CO: Neue Messungen und Test semiempirischer Potentialflächen</i>                                     |
| 23.01.1997 | Institut für Physikalische Chemie, RWTH Aachen                                                             |
| 015        | <i>Ar-CO und (NH<sub>3</sub>)<sub>2</sub> - Zwei Prototypen für intermolekulare Wechselwirkung</i>         |
| 12.01.1997 | Konferenz "Moving Frontiers in Quantum Molecular Science", Bonn                                            |
| 014        | <i>Ar-CO and (NH<sub>3</sub>)<sub>2</sub> - Two prototype systems for intermolecular interaction</i>       |
| 13.05.1996 | Workshop on potential surfaces of van der Waals complexes, Bonn                                            |
| 013        | <i>(NH<sub>3</sub>)<sub>2</sub> a hydrogen bonded complex? - The importance of large amplitude motions</i> |
| 20.03.1996 | Hauptvortrag DPG Frühjahrstagung, Rostock                                                                  |
| 012        | <i>Van-der-Waals-Komplexe - eine besondere Klasse von Molekülen</i>                                        |
| 05.03.1996 | DLR, Institut für Weltraumsensorik, Berlin                                                                 |
| 011        | <i>Van-der-Waals-Komplexe im Labor - und im Weltall?</i>                                                   |
| 12.01.1996 | Laboratoire de Photophysique Moléculaire du CNRS, Orsay, France                                            |
| 010.       | <i>Infrared spectroscopy of van der Waals complexes</i>                                                    |
| 20.12.1995 | Universitätsklinik Essen                                                                                   |
| 009        | <i>Was das Sternenlicht uns erzählt</i>                                                                    |
| 01.12.1995 | Institut für Physikalische Chemie, Universität Düsseldorf                                                  |

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| 008        | <i>Infrarotspektroskopie an van-der-Waals-Komplexen</i>                                                          |
| 27.11.1995 | Max-Planck-Institut für Radioastronomie, Bonn                                                                    |
| 007        | <i>Van-der-Waals-Komplexe - eine besondere Klasse von Molekülen</i>                                              |
| 15.11.1995 | Max-Planck-Institut für Strömungsforschung, Göttingen                                                            |
| 006        | <i>Infrarotspektroskopie an van-der-Waals-Clustern</i>                                                           |
| 20.10.1995 | Physikalisches Institut, Universität Bonn                                                                        |
| 005        | <i>Van-der-Waals-Komplexe - eine besondere Klasse von Molekülen</i>                                              |
| 19.05.1995 | Graduiertenkolleg, Fachbereich Physik, Universität Kaiserslautern                                                |
| 004        | <i>Infrarotspektroskopie an Clustern</i>                                                                         |
| 27.01.1995 | Abteilung für Chemische Physik, Universität Kiel                                                                 |
| 003        | <i>Konzentrationsmodulationsspektroskopie an CO enthaltenden Komplexen</i>                                       |
| 10.01.1995 | Gordon Research Conference on Atomic and Ionic Clusters                                                          |
| 002        | Casa Sirena, Oxnard, CA, USA<br><i>Concentration modulation in the jet: (CO)<sub>2</sub> - a floppy molecule</i> |
| 08.12.1989 | Institut für Physikalische Chemie, Universität Frankfurt                                                         |
| 001        | <i>Dipolmomentmessungen am HN<sub>2</sub><sup>+</sup></i>                                                        |