**Venue:**
Technische Universität Berlin
Department of Chemistry (Building C)
Straße des 17. Juni 115

Can be reached best by the U-Bahn (U 2, Ernst-Reuter-Platz) or with the S-Bahn (Tiergarten).

**Confirmed Plenary & Invited Speakers**
- Peter Leadlay (Cambridge, UK)
- Johann Mulzer (Vienna, Austria)
- Marcel Jaspars (Aberdeen, UK)
- Teresa Carlomagno (Heidelberg, Germany)
- Wilfred van der Donk (Illinois, USA)
- Hans-Peter Fiedler (Tübingen, Germany)
- Karl Gademann (Basel, Switzerland)
- Toshiaki Sunazuka (Tokyo, Japan)
- Istvan Molnar (Tucson, USA)
- Ali Al-Mourabit (Gif-sur-Yvette, France)
- Floris Rutjes (Nijmegen, NL)

**Registration Fees**
- 250 € - professors + group leaders
- 350 € - industry

(Booking of abstracts, sightseeing Potsdam, conference dinner and coffee breaks are included)

**Registration**
For online registration and further information please visit our website:
http://www.biochemie.tu-berlin.de/icca12/

**Organisation**
TU BERLIN
Prof. Dr. Roderich Süssmuth
Technische Universität Berlin
Institut für Chemie / FG Organische Chemie
Strasse des 17. Juni 124 / TC 2
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LEIBNIZ UNIVERSITÄT HANNOVER
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**The Mission of ICCA**
The objective of ICCA is to provide a forum for academic and industrial scientists to discuss all aspects of the chemistry and biology of bioactive compounds with a focus on antibiotics research. Papers on structural, synthetic and/or biomechanistic studies on both natural and designed compounds will constitute the scientific program of the Conference. This program will include plenary, invited and registered lectures.

The ICCA conferences are biennial meetings held since 1988 in Aixsous (France), Oiso (Japan), Kloster Banz (Germany), Nashville (USA), Debrecen (Hungary), Bologna (Italy), Mierki (Poland), Tokyo (Japan), Arcachon (France), Nashville (USA) and San Sebastian (Spain).
### Sunday, 11th September 2011

18:00 Reception for invited speakers
Restaurant „Lubitsch“

### Monday, 12th September 2011

08:00-09:45 Registration

09:45-10:00 Conference Opening
Andreas Kirschning/Roderich Süssmuth

10:00 PL(1) Peter Leadlay (Cambridge, UK)
Engineered biosynthesis of polyketide drugs

10:45 Coffee break

### SESSION I (Chairman: Herbert Kirst)

**11:15 IL(2)** Hans-Peter Fiedler (Tübingen, Germany)
Streptomycetes from hyperarid soils as producers of macrolactone antibiotics

**11:45 NL(3)** Russell Cox (Bristol, UK)
Programming and reprogramming in fungal highly reducing polyketide synthases

**12:05 NL(4)** Akihiko Sugawara (Tokyo, Japan)
Novel 12-membered non-antibiotic macrolides; EM900 series as novel leads for anti-inflammatory and/or immunomodulatory agents

12:30 Lunch

**14:00 IL(5)** Karl Gademann (Basel, Switzerland)
Inhibition of biofilm formation by antimicrobial surfaces

**14:30 IL(6)** Toshiaki Sunazuka (Tokyo, Japan)
Total synthesis of novel polycyclic bioactive indole alkaloids

**15:00 NL(7)** Manfred Braun (Düsseldorf, Germany)
Aryl indanyl- and aryl hetaryl ketones as inhibitors of peptidyl-prolyl-cis/trans-isomerases mimicking the transition state

**15:20 NL(8)** Sebastian Stecko (Warsaw, Poland)
Stereoselective synthesis of β-lactams via Kinugasa cycloaddition-rearrangement cascade

15:40-16:00 Departure bus transfer to Potsdam
Sightseeing Potsdam

17:00-19:00 walk through Potsdam with guides

19:15 Dinner Restaurant „Alter Stadtwächter“
(costs not included in the conference fee)
return to Berlin by public transport

### Tuesday, 13th September 2011

**SESSION II (Chairman: Karl Gademann)**

09:00 PL(9)
Johann Mulzer (Vienna, Austria)
Total synthesis of structurally demanding natural products

09:45 NL(10)
Dirk Menche (Heidelberg, Germany)
Stereoc hemically determined and total synthesis of complex polyketide antibiotics

10:05 NL(11)
Grigory Veinberg (Riga, Latvia)
Synthesis and biological activity of 7-alkylidenecephalophor derivatives

10:25 Coffee break

11:00 IL(12)
Istvan Molnar (Tucson, USA)
Exploring modularity – cooperising fungal iterative polyketide synthases for resorcylic acid lactone production

**SESSION III (Chairman: Michael Meijler)**

14:00 PL(16)
Marcel Jaspars (Aberdeen, UK)
From the Driest to the Deepest Place on Earth – Natural Products from Extreme Environments

14:45 IL(17)
Ali Al-Mourabit (GIF, France)
Marine bioactive metabolites, isolation, biomimetic synthesis and biosynthesis

15:15 NL(18)
Jeroen Dickschat (Braunschweig, Germany)
Tropodithetic acid – a novel antibiotic from the sea

15:35 Coffee break

16:05 PL(19)
Teresa Carlonagno (Heidelberg, Germany)
Functional mechanisms of drugs studied by NMR: methodology and applications

16:50 NL(20)
Bartlomiej Furman (Warsaw, Poland)
Ferrier-Petasis rearrangement of 4-vinloxy-azetidin-2-ones, an entry to carbapenems and carbacephans

19:30-22:30 Conference dinner „boat trip Berlin“
(Departure: Station „Friedrichstrasse“)

### Wednesday, 14th September 2011

**SESSION IV (Chairman: Russell Cox)**

09:00 PL(21)
Wilfried van der Donk (Illinois, USA)
Post-translational modifications in natural product biosynthesis

09:45 NL(22)
Elke Dittmann (Potsdam, Germany)
Tricyclic depsipeptide synthesis in cyanobacteria: mechanistic insights and targeted manipulation

10:05 NL(23)
Evgenia Olufyeyeva (Moscow, Russia)
Unusual amidation reaction of Asn-containing Vancomycin-type glycopeptide antibiotics with the use of the coupling reagent PyBOP

10:25 Coffee Break

11:00 IL(24)
Floris Rutjes (Nijmegen, Netherlands)
Towards new antibiotics by inhibiting bacterial fatty acid synthesis

11:30 NL(25)
Michael Meijler (Be’er Sheva, Israel)
Jamming bacterial communication as a strategy to inhibit virulence

11:50 NL(26)
Josef Messinger (Hannover, Germany)
Mast cells, mast cell chymase and chymase inhibitors

12:10 NL(27)
Karsten Krohn (Paderborn, Germany)
Chemical diversity of bioactive natural products from endophytic fungi

12:30 Closing Remarks

12:40 Departure