



Sprecherin 2017-2019

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Stellvertreterin 2017-2019

Friederike Schmid
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Stellvertreter 2017-2019

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Mitgliederversammlung 3.4.2019

- Aktuelle Zahlen
- EPL Posterpreise
- Wahl des neuen Sprecherteams
- Diskussion aktueller Themen
- Ausblick



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Recent Statistics

Current BP Members 1.514 (as of Jan 16, 2019): 63 more than 2018!
 BP Budget ca. 2500 Euro

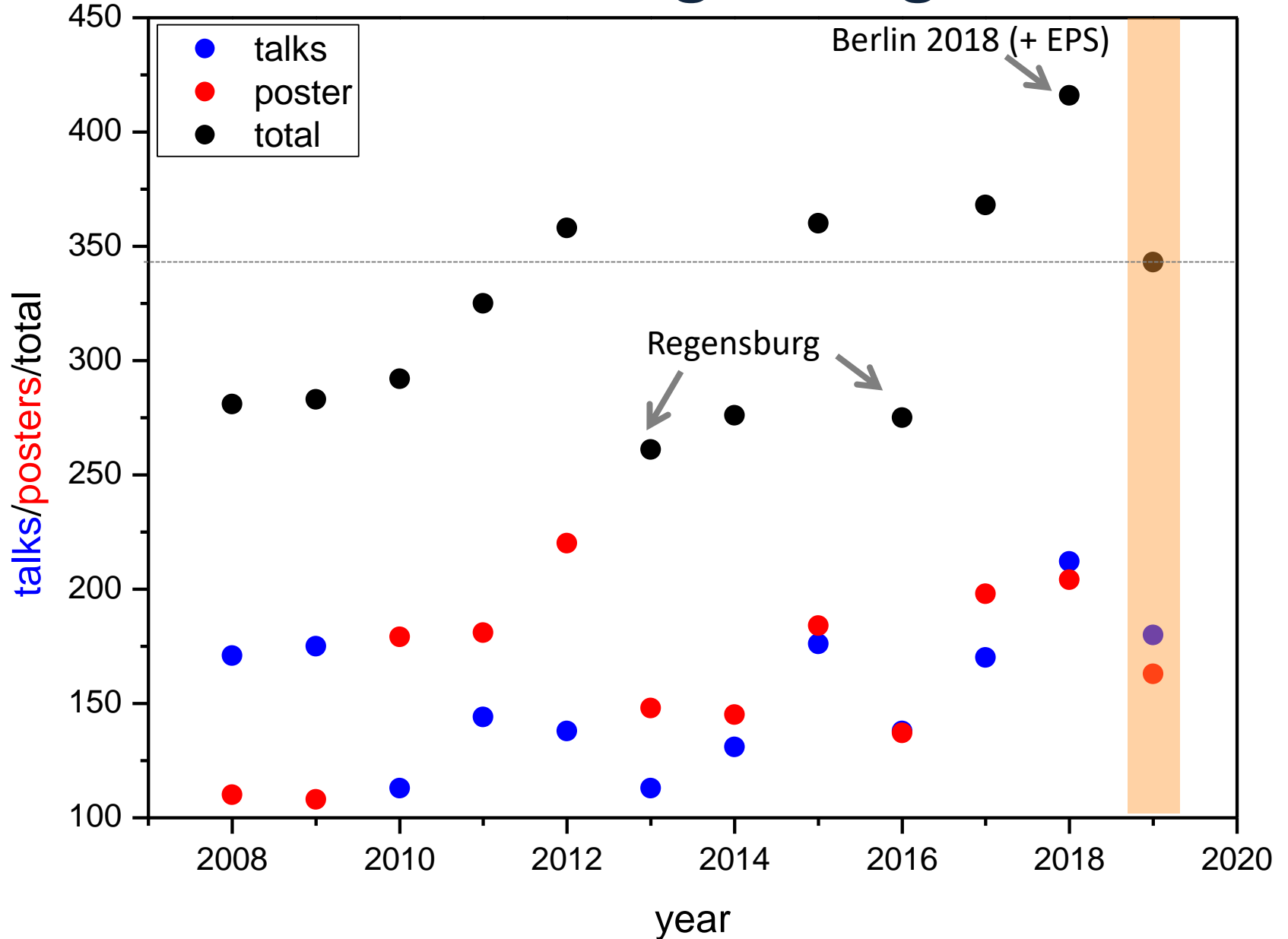
	RB19	B18	DD17	RB16	B15	DD14	RB13	B12	DD11	RB10	DD09	B08
Talks (contr.)	180	207	170	138	176	131	113	138	144	113	175	171
Posters	163	204	198	137	184	145	148	220	181	179	108	110
Total	343	411	368	275	360	276	261	358	325	292	283	281

Invited Talks 18 (5 abroad, 4 female)
 Submitted talks (2.12.2017) 193
 Submitted posters (2.12.2017) 150
 Poster moved to other Divisions 1 > DY
 Poster from other Divisions 1 < DY
 Talks from other Divisions 2 < CPP

 Talks > Poster 13

Cancelled (and announced) Contributions
 (as of April 2, 2019)
 0 invited talks
 5 talks in BP Sessions
 4 posters in BP Sessions
 1 talk in joint sessions (CPP)

We are still growing!



Meeting Highlights 2019



Plenary Lectures

- by **Matthias Rief**
- by **Julia Yeomans**
- by **Deltev Lohse**
- by **Kurt Kremer** (Friday!)

Closing talk by **Andreas Bausch** (Friday, 12:30, Audimax)

Fachübergreifende Symposia

- Patterns in Nature: Origins, Universality, Functions (DY)
- Physics of Self-Organization in DNA Nanostructures(CPP)

Focus Sessions

- Collective Dynamics in Neural Networks – **Viola Priesemann and Johannes Zierenberg**
- Physics of Cilia: Dynamics of Synchronized Oszillators – **Benjamin Friedrich and Veikko Geyer**
- Numerous **Joint Sessions** with other Divisions (CPP, DY, SOE,...)

Schedule 2019



	Sunday 31.03.2019	Monday 01.04.2019	Tuesday 02.04.2019	Wednesday 03.04.2019	Thursday 04.04.2019	Friday 05.04.2019
09		H1 Plenary Talk J. Ulrich	H1 Plenary Talk E. Bodenschatz	H1 Plenary Talk M. Rief	H1 Plenary Talk M. Wolf	H1 Plenary Talk K. Kremer
10		H4 Protein Structure and Dynamics	H4 Bioimaging and -spectroscopy II	H4 Active Matter I	H1 SSYDN: Physics of Self-Organization in DNA Nanostructures	H10 Cell Adhesion and Migration, Multicellular Systems II
11		H10 Membranes and Vesicles I	H10 Cytoskeletal Filaments	H10 Cell Mechanics I	H10 Biomaterials and Biopolymers I	H11 Active Matter II
12		H11 Bioimaging and -spectroscopy I	H11 Computational Biophysics	H11 Focus: Collective Dynamics in Neural Networks	H11 Cell Adhesion and Migration, Multicellular Systems I	
13						H1 Closing Talk A. Bausch
14		H1 Prize Talk D. Lohse	H1 Prize Talk	H1 Prize Talk	H1 Prize Talk	
		Lunch Talks H2/H15	Lunch Talks H2/H15	Lunch Talks H2/H15	Lunch Talks H2/H15	
15		H1 Plenary Talks J. Yeomans	H2 BP Poster Session II	H1 Plenary Talks O. Schmidt	H1 Plenary Talks H. Riel	H2 C. Moore
		H10 R. Nemanich	Poster B2	H10 J. Schmalian	H10 H. Riel	H11 C. Moore
16		H1 SYPN: Symposium Patterns in Nature: Origins, Universality, Functions		H4 Statistical Physics of Biological Systems I	H4 Single Molecule Biophysics	H11 Statistical Physics of Biological Systems II
17	Tutorials H2, H3, H4, H10	H10 Membranes and Vesicles II	Prize Ceremony H1	H10 Cell Mechanics II	H10 Biomaterials and Biopolymers II	
		H11 Systems Biology & Gene Expression and Signaling	Plenary Talk L. Greene	H11 Focus: Physics of Cilia: Dynamics of Synchronized Oscillators	H11 Cell Mech. III	
18		BP Poster Session I		BP Annual General Assembly H4		
19		Poster B2	Lise Meitner Lecture H2 H. Rubinsztein-Dunlop			
20	Welcome Evening Mensa	H1 Einstein Slam		H1 Public Evening Talk G. Paoletti	Post Deadline Session (O, HL, ML) H1, Mensa	

This table* contains only the BP-(co-)organized sessions. Please refer to the BP program for the list of all BP-relevant sessions, joint sessions and symposia.

(*subject to changes)

Chairs

- Ulrich Schwarz
- Florian Rehfeldt
- Chase Broedersz
- Karen Alim
- Matthias Weiss
- Joe Rudzinski
- Cornelia Monzel
- Sebastian Kruss
- Susanne Fenz
- Jens Elgeti
- Franziska Lautenschläger
- Viola Prisemann
- Friederike Schmid
- Veikko Geyer
- Torben Cordes
- Helmut Grubmüller
- Christoph Schmidt
- Frauke Gräter
- Milos Galic
- Ben Fabry
- Rhoda Hawkins
- Johannes Zierenberg
- Benjamin Friedrich



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This year's poster prize of the
Biological Physics Division
sponsored by

The logo for the journal 'epl' features the lowercase letters 'epl' in a bold, black, sans-serif font, enclosed within a red circle.

A LETTERS JOURNAL EXPLORING
THE FRONTIERS OF PHYSICS

Poster Jury

- organized by **Franziska Lautenschläger** and **Jens Elgeti**
- Tobias Bollenbach
- Dmitry Fedosov
- Philip Kollmannsberger
- Oliver Otto
- Falko Ziebert
- Johannes Zierenberg
- Andreas Zöttl
- Severin Schink
- Florian Rehfeldt
- Benjamin Friedrich
- Anatol Fritsch
- Jens Harting
- Rhoda Hawkin
- Cornelia Monzel
- Guillaume Salbreux
- Vasily Zaburdaev



Poster Awards 2019

Poster Sessions Monday evening and Tuesday afternoon

Johanna Dickmann (Dresden, AG Jülicher)

Melis Goktas (Potsdam, AG Blank)

Patrick Kudella (München, AG Braun)

Paul Lühe (Rostock, AG Speller)

Felix Meigel (Göttingen, AG Alim)

Laura Schaedel and Charlotta Lorenz (Göttingen, AG Köster)

Simon Streit (Bayreuth, AG Gekle)

Poster Award of the
Biological Physics Division
sponsored by



A LETTERS JOURNAL EXPLORING
THE FRONTIERS OF PHYSICS

Johanna Dickman

Poster Award of the
Biological Physics Division
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Melis Goktas

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Felix Meigel

Poster Award of the
Biological Physics Division
sponsored by



**Laura Schaedel and
Charlotta Lorenz**

Poster Award of the
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Simon Streit

DPG Fachverband Biologische Physik (BP)

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Vorschlag



Sprecher 2019-2021
Gerhard Gompper
Forschungszentrum Jülich



Stellvertreterin 2019-2021
Frauke Gräter
Heidelberger Institut
für Theoretische Studien



Stellvertreter 2019-2021
Joachim Rädler
LMU München

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Discussion

Presentations:

- again a number of cancellations this year
 - cancelled talks: **organize replacement**
 - avoid last minute talk cancellations
 - inform A. Wobst and spokesperson about cancellations
 - inform your supervisor
- how many parallel sessions do we want?
- choice of contributed talks
 - 2 per group, preselection by group leader (requests for exceptions: please discuss in advance!)
 - or: everyone gets to speak (= more parallel sessions)
- invited talks in parallel or in series?

Discussion

Posters:

- poster awards: important to make the poster sessions (even more) attractive
- amount of beverages/pretzels?
- jury

Discussion

Webpage:

- New DPG webpage has been launched
- There may still be mistakes (broken links etc.) – please report to spokesperson
- English webpage not available yet
- Protection of data privacy: consent-form will be sent around, we can then put your group's information back on the page



Einverständniserklärung:

Nennung personenbezogener Daten auf der
DPG-Webseite des Fachverbands Biologische
Physik (BP)

Kontakt:
Prof. Dr. Sarah Köster
sarah.koester@phys.uni-goettingen.de

Ich bin damit einverstanden, auf der Webseite des Fachverbands Biologische Physik (BP) der
DPG auf der Liste „Forschungsgruppen im Fachverband BP“ ([https://www.dpg-
physik.de/vereinigungen/fachlich/skm/fvbp/forschungsgruppen](https://www.dpg-physik.de/vereinigungen/fachlich/skm/fvbp/forschungsgruppen)) mit folgenden Daten
aufgeführt werden:

Name:

Einrichtung:

URL:

Diese Einverständniserklärung wird zu Dokumentationszwecken auf dem Server der DPG in
einem versteckten Ordner auf der entsprechenden Webseite des Fachverbands CPP hinterlegt.

Ort, Datum

Unterschrift

Discussion

Miscellaneous:

- BP Budget – suggestions for investments/actions?
- cooperation CPP, DY
- session topics

Submission statistics (1.12.2018)

talks

posters

Topic	1	2	3	4	5	6	7	8	9	10	11	Sum
Active matter (joint with CPP)	0	0	0	1	0	12	0	6	0	0	0	19
Bioimaging and biospectroscopy	0	0	0	1	0	22	0	21	0	0	0	44
Biomaterials and biopolymers (joint with CPP)	0	0	0	1	0	18	0	9	0	0	0	28
Cell adhesion and migration, multicellular systems	0	0	0	2	0	19	0	14	0	0	0	35
Cell mechanics	0	0	0	2	0	25	0	16	0	0	0	43
Cytoskeletal filaments	0	0	0	1	0	10	0	16	0	0	0	27
Computational biophysics	0	0	0	1	0	11	0	10	0	0	0	22
Membranes and vesicles	0	0	0	1	0	14	0	12	0	0	0	27
Microswimmers	0	0	0	0	0	10	0	2	0	0	0	12
Neurosciences	0	0	0	0	0	1	0	2	0	0	0	3
Protein structure and dynamics	0	0	0	1	0	10	0	3	0	0	0	14
Single molecule biophysics	0	0	0	1	0	2	0	14	0	0	0	17
Statistical physics of biological systems	0	0	0	2	0	16	0	15	0	0	0	33
Systems biology and Gene expression and signaling	0	0	0	1	0	5	0	5	0	0	0	11
Focus session: Collective dynamics in neural networks	0	0	0	1	0	11	0	5	0	0	0	17
Focus session: Physics of Cilia: Dynamics of synchronized oscillators across scales	0	0	0	1	0	7	0	0	0	0	0	8
Sum	0	0	0	17	0	193	0	150	0	0	0	360



Discussion

Miscellaneous:

- BP Budget – suggestions for investments/actions?
- cooperation CPP, DY
- session topics
- SKM dissertation award: please make nominations (but we barely have a chance to get our candidates through...)
- any other comments? Criticisms?

Discussion

DPG business (and beyond):

- **175 years DPG** in 2020 *“Physik für die Gesellschaft – Gesellschaft für die Physik”* - FV-Veranstaltungen erwünscht; Kontakt: jubilaeum2020@dpg-physik.de
- **DPG Fall Meeting**: “From 23 to 27 September 2019, the first DPG-Herbsttagung (Fall Meeting) addresses Quantum Science in its relation to Information Technologies.”
- **Plans S** (*“Making full and immediate open access a reality”*): <https://www.coalition-s.org>
- Nationale Forschungsdateninfrastruktur (**NFDI**)

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Mitgliederversammlung 14.3.2018

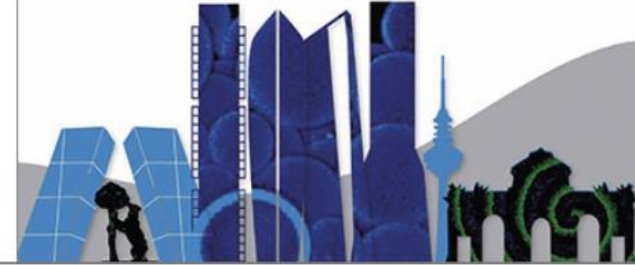
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MADRID
20-24 JULY 2019

**JOINT 12TH EBSA
10TH ICBP-IUPAP
BIOPHYSICS CONGRESS**
BIOPHYSICS FOR LIFE AND TECHNOLOGY

www.ebsa-iupap2019.org



Sir Gregory Winter
Nobel Prize 2018



Stefan Hell
Nobel Prize 2014



Eva Nogales
BPS Plenary Lecturer



Julio Fernández



Biophysics in Europe



CALL FOR ABSTRACTS AND REGISTRATION OPEN

- March 15th: Bursaries submission deadline
- March 20th: Call for Abstracts deadline
- April 4th: Abstracts acceptance
- April 15th: Registration deadline for presenters
- April 29th: Early Registration deadline



MADRID, Spain
20-24th July 2019



Gregory Voith



Jennifer Lippincott-Schwartz



Madan Rao



Patricia Bassereau



<https://ebsa-iupap2019.org>

Conference “**Cell Physics 2019**”
at the Saarland University
in **Saarbrücken**, Germany, 9.-
11.10.2019.

Organized and financed by the
Collaborative Research Center
SFB 1027 “Physical modeling of
non-equilibrium processes in
biological systems”.

Interdisciplinary platform for
scientific exchange between
participants from
cell biology and **biophysics**.

Focus on theoretical concepts in
conjunction with cell biological
experiments.

<http://www.cell-physics.uni-saarland.de/>

Cell Physics 2019

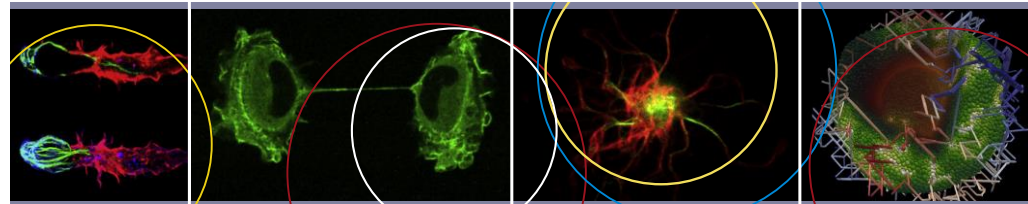
9. - 11. Oktober | Saarbrücken

TOPICS

Cell Mechanics & Mechanobiology
Cytoskeleton
Cellular Self-Organization
Cell Adhesion
Cell Membrane & Membrane Proteins
Cancer & Immune Response

INVITED SPEAKERS

Patricia Bassereau (Inst. Curie Paris)
Anne Bernheim (Ben Gurion Univ.)
Alexander Bershadsky (NU Singapore)
Timo Betz (Univ. Münster)
Laurent Blanchain (CEA Grenoble)
Guillaume Charras (UCL London)
Dennis Discher (Univ. Pennsylvania)
Thierry Emonet (Yale Univ.)
Luis Escudero (Univ. Sevilla)
Peter Friedl (Univ. Nijmegen)
Hermann Gaub (LMU München)
Rhoda Hawkins (Univ. Sheffield)
Sui Huang (ISB Seattle)
Gerhard Hummer (MPI BP Frankfurt)
Carsten Janke (Inst. Curie Orsay)
Andreas Janshoff (Univ. Göttingen)
Gijsje Koenderink (AMOLF Amsterdam)
Ana-Maria Lennon-Duménil (Inst. Curie Paris)
Martin Lenz (Univ. Paris-Sud Orsay)
Ilya Levental (Univ. Texas, Houston)
Rudolf Merkel (FZ Jülich)
Pawel Paszek (Univ. Manchester)
Mark Sansom (Oxford Univ.)
Kheya Sengupta (Univ. Marseille)
Ana-Sunčana Smith (Univ. Erlangen)
Claudia Steinem (Univ. Göttingen)
Tatyana Svitkina (Univ. Pennsylvania)
Olivier Théodoly (INSERM Marseille)
Dave Thirumalai (Univ. Texas, Austin)
Iva Tolić (RBI Zagreb)



ORGANIZERS (UdS)

Heiko Rieger
Ludger Santen

<http://www.cell-physics.uni-saarland.de>

International Workshop

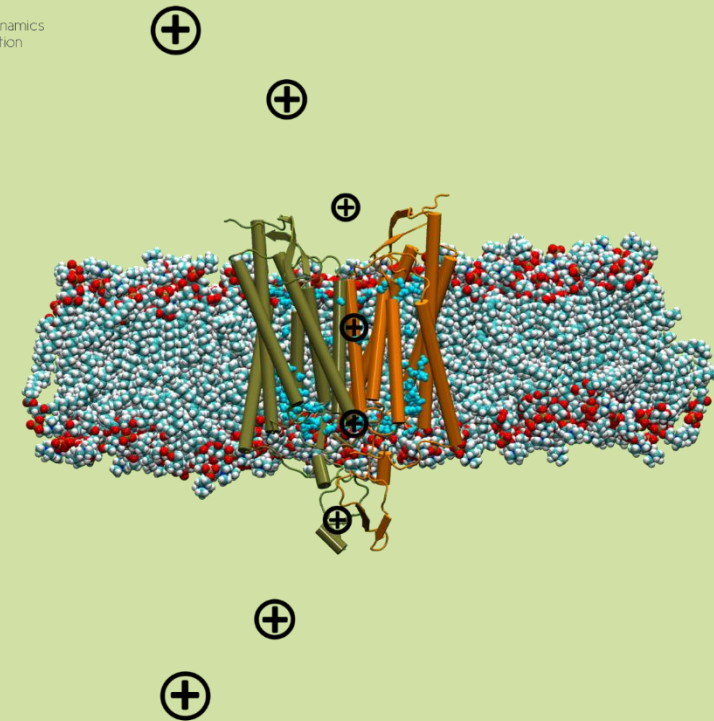


The workings of ion transporters and channels

Speakers:

Isaiah Arkin, Jerusalem
Franz Bartl, Berlin
Klaus Benndorf, Jena
Francisco Bezanilla, Chicago
Ana-Nicoleta Bondar, Berlin
Rouslan Efremov, Bruxelles
Armagan Kocer, Groningen

Hartmut Oschkinat, Berlin
Kate Poole, Sydney
Ramona Schlesinger, Berlin
Susan Smith, Atlanta
Jessica Swanson, Chicago
Dirk Trauner, New York
Horst Vogel, Lausanne



More information and **Early-Bird Registration:**

(early booking discount available until May 10, 2019)

http://www.sfb1078.de/dates/190809_workshop.html

Berlin-Wannsee, Aug. 9-11, 2019

Bildungs- und Begegnungszentrum Clara Sahlberg
Koblanckstraße 10, 14109 Berlin

Bad Honnef Physics School

Supported by the Wilhelm and Else Heraeus-Foundation

Physics of Bacteria

August 4 - 9, 2019, Physikzentrum Bad Honnef, Germany

Organised by

Ulrich Gerland (Technical University of Munich)

For PhD and Master Students (and early Postdocs)

Speakers and Topics

Rosalind Allen (University of Edinburgh)

- Models for bacterial physiology

Ariel Amir (Harvard)

- Single-cell growth laws / cell cycle

Markus Basan (Harvard Med. School)

- Metabolism & Physiology

Ilka Bischofs (MPI Marburg)

- Bacterial endospores

Tobias Bollenbach (Univ. zu Köln)

- Antibiotic stress and resistance

Knut Drescher (MPI Marburg)

- Bacterial multicellular dynamics & advanced imaging

Erwin Frey (LMU München)

- Pattern formation & Intracellular positioning systems

Ethan Garner (Harvard)

- Establishment and maintenance of cell shape

Ulrich Gerland (TU München)

- Growth transitions, starvation & bacterial fitness

Oskar Hallatschek (University of California at Berkeley)

- Evolutionary dynamics

Ralf Heermann (Univ. Mainz)

- Introduction to Bacteriology

Stephan Klumpp (Univ. Göttingen)

- Gene expression

Berenike Maier (Univ. zu Köln)

- Physics of bacterial colonies

Lars Renner (Leibniz Institute for Polymer Research Dresden)

- Microfabrication and Microbiology

Sven van Teeffelen (Pasteur Institute, Paris)

- Mechanics of the cell envelope & Intracellular crowding

Registration:

www.pbh.de

Outlook



Upcoming DPG SKM Spring Meeting in **Dresden: 15.03.-20.03.2020**

Please send us your suggestions for...

- New Vice-Speakers
- Plenary Speakers
- Joint Symposia
- Focus Sessions
- Invited Speakers
- ...

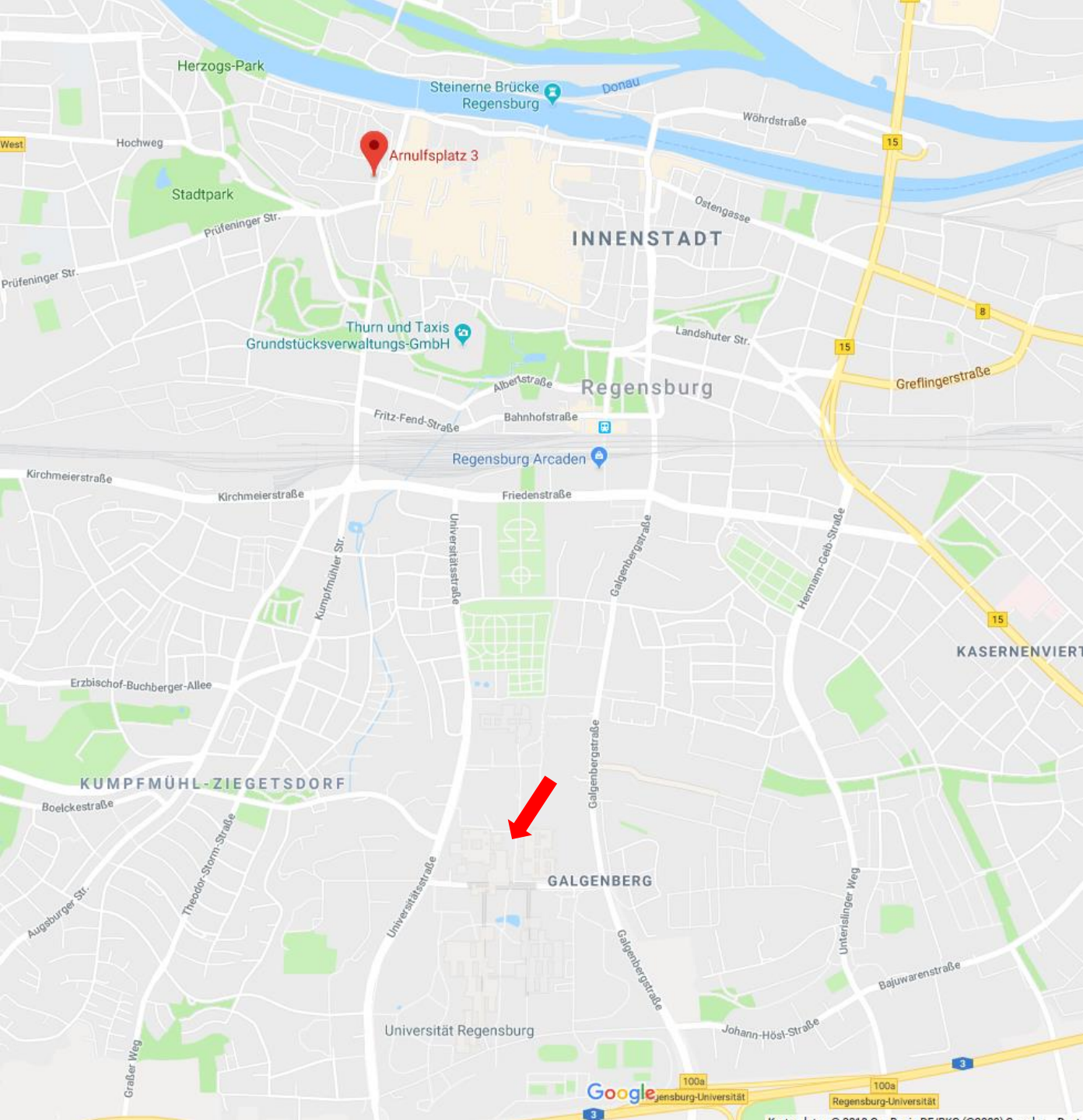
See you in 2020 again!

Thanks to...

- speakers
- poster presenters
- chairs
- poster jury + organizers
- discussion participants
- you for coming!

Speakers' Dinner

- (also: poster judges, chairs, session organizers)
- 8.00 pm at Brauereigaststätte Kneitingner, Arnulfsplatz 3, 93047 Regensburg
- Like every year, members of BP are welcome to join (on their own cost)



zu Fuß ~ 40 mins

- Bus:
Linie 6 bis Bismarkplatz
Linie 4 bis Arnulfplatz
Linie 11 bis Arnulfplatz