# Program Overview

18th Science and Technology Indicators Conference (STI): Translational twists and turns: Science as a socio-economic endeavor
Berlin-Brandenburg Academy of Sciences and Humanities
4-6th September 2013

**Wednesday, September 4, 2013**
- 8:00-9:00 Registration
- 9:00-9:15 Welcome by the Host
- 9:15-10:00 Keynote
- 10:00-11:00 Plenary Session
- 11:00-11:30 Coffee Break
- 11:30-13:00 Parallel Sessions
- 13:00-14:00 Lunch
- 14:00-16:00 Parallel Sessions
- 16:00-16:30 Coffee Break
- 16:30-18:30 Parallel Sessions
- 18:45 Walking Tour

**Thursday, September 5, 2013**
- 8:00-9:00 Registration
- 9:00-11:00 Parallel Sessions
- 11:00-11:30 Coffee Break
- 11:30-13:00 Parallel Sessions
- 13:00-14:00 Lunch
- 14:00-15:00 Poster Session 1
- 15:00-16:30 Parallel Sessions
- 16:30-17:00 Coffee Break
- 17:00-18:30 Plenary Session
- 19:30 Conference Dinner

**Friday, September 6, 2013**
- 9:00-10:00 Poster Session 2
- 10:00-11:00 Parallel Sessions
- 11:00-11:30 Coffee Break
- 11:30-12:30 Parallel Sessions
- 12:30-12:45 Announcement of next conference(s) and Farewell
- 12:45-13:30 Lunch
- 13:30-14:30 ENID Assembly
# Conference Program

**Wednesday, September 4, 2013**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8:00-9:00</td>
<td>Registration</td>
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<tr>
<td>9:00-9:15</td>
<td>Welcome by the Host (Leibniz-Saal)</td>
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<td>9:15-10:00</td>
<td>Keynote (Leibniz-Saal)</td>
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<td><strong>Data, experts, and politicians – symbiosis or peaceful coexistence?</strong></td>
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<td>MinDirig Dr. Dietrich Nelle (Federal Ministry of Education and Research, BMBF)</td>
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<td>10:00-11:00</td>
<td>Plenary Session (Leibniz-Saal)</td>
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<td><strong>Chair: Robert Tijssen</strong></td>
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<td></td>
<td><strong>An Indicator of Translational Capacity of Biomedical Researchers</strong></td>
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<td>Kevin W. Boyack, Richard Klavans, Michael Patek, Patrick Yoon, and Lyle H. Ungar</td>
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<td><strong>Science unfolding in technology: a cross-country analysis of scientific citations in patents</strong></td>
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<td>Julie Callaert, Jan-Bart Vervenne, and Bart Van Looy</td>
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<td>11:00-11:30</td>
<td>Coffee Break (Leibniz-Saal)</td>
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**Parallel Sessions**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 1 (Leibniz-Saal)</th>
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<tr>
<td>11:30-13:00</td>
<td><strong>Research Performance and wider Impact</strong></td>
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<td><strong>Chair: Stefan Hornbostel</strong></td>
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<td><strong>Enlightenment literature and the complex ecology of public knowledge</strong></td>
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<td>Diana Hicks and Jian Wang</td>
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<td><strong>Societal Use of Research (SURe): stakeholder perceptions and data method development</strong></td>
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<td>Ingeborg Meijer, Clara Calero Medina, and Rebecca Abma-Schouten</td>
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<td><strong>Recent developments in Dutch research assessment. Scholarly activity in SSH and Law in a new perspective</strong></td>
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<td>Thed van Leeuwen, Erik van Wijk, and Paul Wouters</td>
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</tbody>
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11:30-13:00  
**Session 2 (Room 1)**  
**Funding policies**  
Chair: Sybille Hinze  

Measuring opening of national R&D programmes: what indicators for what purposes?  
Emilia Primeri, Emanuela Reale, Benedetto Lepori, Philippe Laredo, Maria Nedeva, and Duncan Thomas  

Relationships between policy, funding and academic performance: Examination of a Danish success story  
Kaare Aagaard and Jesper Schneider

11:30-13:00  
**Session 3 (Room 2)**  
**Collaboration and Networks**  
Chair: Kevin Boyack  

The Influence of Group Research Support on Research Collaboration Networks: Center-level Evidence from the NRF Science/Engineering Research Center Program  
Chang Hoon Yang and Jungeun Heo  

Proximity mechanisms in European research networks: a case study of the water sector  
Pieter Heringa, Laurens Hessels, and Marielle van Zouwen  

Citation Benefits and International Visibility of Two-Country-Collaborations  
Mathias Riechert, Daniel Sirtes, and Haiko Lietz

13:00-14:00  
Lunch (Leibniz-Saal)

14:00-16:00  
**Session 1 (Leibniz-Saal)**  
**University assessment #1**  
Chair: Hans-Dieter Daniel  

The Application of Citation-Based Performance Classes in Institutional Research Assessment  
Wolfgang Glänzel, Bart Thijs, and Koenraad Debackere  

Productivity differences influence Swedish universities' citation-based university rankings: An analysis of the relationship between work productivity and citation performance  
Rickard Danell  

Ranking universities: The challenge of affiliated institutes  
Fleur Praal, Joost Kosten, Clara Calero Medina, and Martijn Visser
**14:00 - 16:00**

**Session 2 (Room 1)**

**Innovation**

**Chair:** Wolfgang Polt

**Cross-Technology Diffusion of Software: A Patents-based Analysis**

Poh-Kam Wong and Yuen Ping Ho

**Discoveries and citations over time in solar cell technology**

Katarina Larsen and Clara Calero Medina

**Internationalization of Large Firms R&D activities: towards a shift in trend?**

Antoine Schoen, Patricia Laurens, Christian Le Bas, Lionel Villard, and Philippe Larédo

**14:00 - 16:00**

**Session 3 (Room 2)**

**New Metrics: knowledge production**

**Chair:** Thed van Leeuwen

**How Smart is Specialisation? An Analysis of Specialisation Patterns in Knowledge Production**

Gaston Heimeriks

**Towards the Development of an Article-level Indicator of Conformity, Innovation and Deviation**

Richard Klavans and Kevin W. Boyack

**Measuring the diversity of research using paper similarities**

Jochen Gläser, Frank Havemann, Michael Heinz, and Alexander Struck

**Access and utilisation of social capital in knowledge transfer**

Thomas Gurney, Edwin Horlings, and Peter van den Besselaar

**16:00 - 16:30**

Coffee Break (Leibniz-Saal)

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**Parallel Sessions**

**16:30 - 18:30**

**Session 1 (Leibniz-Saal)**

**Individual assessment #1**

**Chair:** Emanuela Reale

**Publication productivity expressed by age, gender and academic position – an analysis on Norwegian scientists**

Kristoffer Rørstad and Dag W. Aksnes

**The predictability of the Hirsch index evolution**

Michael Schreiber

**Weighting of indicators**

Ülle Must and Oskar Otsus
**16:30-18:30**  
**Session 2 (Room 2)**  
New metrics: interdisciplinarity  
Chair: Ismael Rafols

**Citation impacts revisited: How novel impact measures reflect interdisciplinarity and structural change at the local and global level**  
Michel Zitt and Jean-Philippe Cointet

**A bottom-up approach to assess the interdisciplinarity of journals from a multidisciplinary corpus of bibliographical records**  
Ivana Roche, Dominique Besagni, Claire François, Marianne Hörllesberger, and Edgar Schiebel

**The “Translational” effect in medical journals. Bridging the gap?**  
Eric van Wijk and Marc Luwel

**18:45**  
Walking Tour
Thursday, September 5, 2013

8:00-9:00  Registration

Parallel Sessions

9:00-11:00  Session 1 (Leibniz-Saal)
Grant decisions and their impact on researcher’s careers
Chair: Rickard Danell

Inge van der Weijden, Rosalie Belder, and Ingeborg Meijer

More competition, better science? The predictive validity of grant selection.
Peter van den Besselaar

Is post-doc funding stimulating research performance? Evidence from Danish research policy!
Jesper Schneider and Thed van Leeuwen

The notion of talent: What are the talents we are looking for in science?
Pleun van Arensbergen, Inge van der Weijden, and Peter van den Besselaar

9:00-11:00  Session 2 (Einstein-Saal)
Identifying and characterizing emerging fields / future technologies
Chair: Éric Archambault

Quantitative Analysis of Technology Futures: A conceptual framework for positioning FTA techniques in policy appraisal
Tommaso Ciarli, Alex Coad, and Ismael Rafols

Bibliometric classification of emerging topics
Marcus John and Frank Fritsche

Identifying emerging biorefinery technologies & potential markets: A technometric approach
Michael Novotny and Ulf Sandström

The discovery of ‘introns’: analysis of the science-technology interface
Jos Winnink, Robert Tijssen, and Anthony van Raan

11:00-11:30  Coffee Break (Leibniz-Saal)
Parallel Sessions

11:30-13:00  
**Session 1 (Leibniz-Saal)**  
University assessment #2 – multidimensionality of activities  
Chair: Benedetto Lepori

Marks as indicators for analysing the service orientation of universities  
Ulrich Schmoch

Conceptualization and development of benchmark bibliometric studies for research assessment  
Ed Noyons and Rodrigo Costas

Knowledge and technology transfer performance of European universities and research institutions: assessing the influence of institutional by-laws and practices  
Franz Barjak, Nordine Es-Sadki, and Anthony Arundel

11:30-13:00  
**Session 2 (Einstein-Saal)**  
Standards  
Chair: Gunnar Sivertsen

Introductory presentation: Bibliometric Evaluation Standards Debate  
Daniel Sirtes and Ludo Waltman

Panel discussion  
Éric Archambault, Wolfgang Glänzel, Stefan Hornbostel, and Paul Wouters

13:00-14:00  
Lunch (Leibniz-Saal)

14:00-15:00  
**Poster Session 1 (Room 2 / Room 3)**

Vladimir Albrecht: Measuring “teaming for excellence” in the FP7

Lucy Amez: Citations of social sciences and humanities publications in the Flemish Academic Bibliographic Database

Martin Barth, Stefanie Haustein, and Barbara Scheidt: Co-publication analysis of German and Chinese institutions in the life sciences

Thomas Blondiau, Miriam Van Hoed, Arnold Verbeek, and Annelies Wastyn: Mobility of researchers in the European Union

Nuno Boavida, António Moniz, and Manuel Laranja: Technology decisions: The relevance of indicators and the influence of social relations

André Calero Valdez, Anne Kathrin Schara, and Martina Ziefle: Measuring Interdisciplinary Performance By Analyzing Mixed Node Publication Networks

Pei-Shan Chi: The characteristics of highly cited non-source items in political science

Sonia Conchi and Carolin Michels: Brain Drain or Brain Circulation? The Extent of German Scientists to Work Abroad

Marije de Goede, Rosalie Belder, and Jos de Jonge: Academic careers in the Netherlands: mobility of academic staff

Tahereh Dehdarirad, Anna Villarroya, and Maite Barrios: Factors related to Gender Differences in Science: A co-word analysis

Kalle Hauss and Jakob Tesch: A longitudinal Perspective on Research Career Intentions during PhD Candidacy
Michael Jaeger, Susanne In der Smitten, and Johannes Wespel: Governance by indicators in German higher education: A look at internationality
Hirotaka Kawashima and Masashi Shirabe: Granular and Exclusive Clustering of Scientific Journals with Constraints by Essential Science Indicators
Katarina Larsen and Peter Sjögårde: Research institutes’ locally anchored collaboration and international co-authorship networks
Eustache Mégngibéto: Scientific publishing in West Africa: a comparison with BRICS
Ana Ramos and Maria Arménia Carrondo: Changing the budgeting model in times of scarcity. Opportunity or additional constraint?
Christine Rimmert: Evaluation of Yahoo! Placefinder on institutional addresses
Sandra Carolina Rivera-Torres, Marcela Galvis-Restrepo, and Jenny Cárdenas-Osorio: Cumulative Capabilities in Colombian Universities: an Evaluation Using Scientific Production
Sandra Carolina Rivera-Torres, Marcela Galvis-Restrepo, and César Pallares: An approximation to the measurement of researcher’s scientific and technologic careers, using secondary data collections
Isabel Roessler: 15 years Ranking and Indicator Experience: Needs and Requirements
Gunnar Sivertsen, Nick Deschacht, Henrik Aldberg, and Tim C. E. Engels: The influence of performance-based university research funding systems on co-authorship practices
Espen Solberg and Ole Wiig: Framing R&D markets: A study of private and public demand for R&D—services
Cathelijn Waaijer: Academic Career Structures – Historical Overview Germany 1850-2013
Alfredo Yegros-Yegros and Robert Tijssen: Regional outreach and engagement of universities: a scientometric view

Parallel Sessions

15:00-16:30  
Session 1 (Leibniz-Saal)  
New metrics: Altmetrics  
Chair: Peter van den Besselaar

On the relation between altmetrics and citations in medicine
Stefanie Haustein, Mike Thelwall, Vincent Lariviere, and Cassidy R. Sugimoto
What do citations, downloads and readership data of an information systems journal have in common and where do they differ?
Juan Gorraiz, Christian Gumpenberger, Kris Jack, Peter Kraker, and Christian Schloegl
The diffusion of scientific literature on the web
Xianwen Wang, Wenli Mao, Chunbo Zhang, and Zeyuan Liu
15:00-16:30  
**Session 2 (Einstein-Saal)**

*Science and Technology: structures, characteristics and developments*

Chair: Koenraad Debackere

*Interactive Overlay Maps for US Patent (USPTO) Data Based on International Patent Classifications (IPC)*

Loet Leydesdorff, Duncan Kushnir, and Ismael Rafols

*From inception to exploitation: research trails in biotechnology start-ups*

Thomas Gurney, Edwin Horlings, and Peter van den Besselaar

*What Differentiates Top Regions in the Field of Biotechnology? An empirical Study of the Texture Characteristics of 101 Biotech Regions in North-America, Europe and Asia-Pacific*

Catherine Lecocq and Bart Van Looy

16:30-17:00  
**Coffee Break (Leibniz-Saal)**

17:00-18:30  
**Plenary Session (Leibniz-Saal)**

*Individual Assessment #2*

Chair: Ben Martin

Brief report on the ISSI 2013 plenary on methodological aspects of individual-level bibliometrics  
Wolfgang Glänzel

Experiences with individual level bibliometrics in research management in the last decade  
Paul Wouters

Decision situations in science policy and management and the need for individual-level bibliometric evaluations  
Marc Luwel

Ethical Aspects of Doing Evaluative Bibliometrics  
Jochen Gläser

19:30  
**Conference Dinner (Roof Terrace / Einstein-Saal) – Dinner Speech (Anthony van Raan)**
Friday, September 6, 2013

9:00-10:00  Poster Session 2 (Room 2 / Room 3)
see Poster Session 1

Parallel Sessions

10:00-11:00  Session 1 (Leibniz-Saal)
New metrics: concepts and use #1
Chair: Christian Schlögl

Size of web domains and interlinking behavior of higher education institutions in Europe
Isidro F. Aguillo, Benedetto Lepori, and Marco Seeber
Fortresses of books: A bibliometric foray into ranking scholarly publishers
Alesia Zuccala, Raf Guns, and Rens Bod

10:00-11:00  Session 2 (Einstein-Saal)
Quality assurance #1
Chair: Anthony van Raan

The relationship between the performance of editorial board members and the impact of scientific journals: an exploratory analysis
Rodrigo Costas, Clara Calero-Medina, Ludo Waltman, and Paul Wouters
Journal Name as Proxy for Research Quality – How the Cult of Journal Impact Factors Is Affecting Research
Bernd Pulverer and Michele Garfinkel

11:00-11:30  Coffee Break (Leibniz-Saal)

Parallel Sessions

11:30-12:30  Session 1 (Leibniz-Saal)
New metrics: concepts and use #2
Chair: Ulrich Schmoch

Measuring performance in complex science and technology strategies: A sociotechnical approach to indicator design
Sebastian Pfotenhauer, Danielle Wood, and Dava Newman
F1000 recommendations as a new data source for research evaluation: A comparison with citations
Ludo Waltman and Rodrigo Costas
<table>
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<tr>
<th>Time</th>
<th>Session Event</th>
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<tbody>
<tr>
<td>11:30-12:30</td>
<td><strong>Session 2 (Einstein-Saal)</strong></td>
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<tr>
<td></td>
<td>Quality assurance #2</td>
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<td><strong>Chair: Jesper Schneider</strong></td>
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<td><strong>Measuring the quality of PhD theses</strong></td>
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<td>Svein Kyvik and Taran Thune</td>
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<td><strong>The Best Five – Do Authors’ Assessments of their own Publications</strong></td>
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<td>Correspond to Metric Based Rankings?</td>
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<td>Marion Schmidt and Jörg Neufeld</td>
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<td>12:30-12:45</td>
<td><strong>Announcement of next conference(s) and Farewell (Leibniz-Saal)</strong></td>
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<td><strong>Lunch (Leibniz-Saal)</strong></td>
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<td>13:30-14:30</td>
<td><strong>ENID Assembly (Leibniz-Saal)</strong></td>
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S-Bahn to Friedrichstrasse
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U6 to Französische Strasse or Stadtmitte