

## Presentation

Science and technology indicators are essential instruments in order to measure and to understand the national and international effort in knowledge production. In the last ten years theoretical frameworks and empirical experiments on STI indicators grew up, because of the emerging needs expressed by scholars, policy makers and stakeholders on measures able to identify changes in national research and innovation systems, to understand internationalisation and integration processes within the public sector of research, as well as to highlight new modes of knowledge production.

Recent developments within PRIME showed that more work on indicators is still needed for both substantive contents and for new organisations (such as higher education institutions and research networks), which must be characterised.

The Rome Winter School on Science, Technology and Innovation Indicators in the Move Toward the ERA, derives from the extensive PRIME research activity in the field. The aim is to supply a short rather intensive training period to Phds and post-doc students on the fundamental and new development of STI Indicators in order to build, reinforce and up-to-date the competences on the field. The School wants to outline input-output and positioning indicators approaches, relying on lectures and on demonstrations, on order to joint “practices” to the traditional presentations. Moreover it became evident that indicators must be useful for policy purposes. This means also to move from the solely macro-analysis to a more micro approach, as well as to deal with the problem of more timely information.

### Coordinators of the School

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### Scientific Committee

Benedetto Lepori, University of Lugano and OST, Paris  
Loet Leydesdorff, ASCoR, Amsterdam  
Martin Meyer, SPRU, Brighton  
Emanuela Reale CERIS CNR, Rome

### Organizational support

Francesca Ceccucci, Daniela Girone, Alberto Paparello, Cinzia Spaziani, Massimo Tocchella

### Secretariat and Contact information

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### Venue

CERIS CNR  
Research Unit “Institutions and Policies for Science and Technology”  
Via dei Taurini, 19  
00185 Rome Italy  
Conference Room

### Information and Materials

[www.ceris.cnr.it](http://www.ceris.cnr.it)  
<http://www.enid-europe.org/winter.html>



**PRIME ROME WINTER SCHOOL**  
on

## **Science and Technology Indicators in the Move Towards the ERA**

CERIS CNR  
5-9<sup>th</sup> November 2007  
Rome



## Themes and call for abstracts

The School addresses the issue of STI Indicators, which represents one of the key actions of PRIME. It is focused on five themes (R&D funding, Human resources, Higher Education, Bibliometrics and Webometrics, Innovation) relevant for and strictly linked to lines of research, and it uses findings of PRIME projects in order to outline recent development of the field.

### Call for participation

The School is devoted to PhD and post doc students, at any stage of their training period, coming from PRIME and from outside. Applicants will be selected on the basis of their research interest in the field of STI indicators, as well as from their CV by the scientific committee of the school. Up to 20 students will be admitted. Participation fee: PRIME students: 150 euros. Non-Prime students: 300 euros.

### Call for abstracts

Applicants have the opportunity to submit an abstract either for an oral presentation or a poster presentation of the school. 6 full paper presentations will be allowed. Other papers positively judged will be accepted as poster presentations. Papers admitted for oral presentation can be considered also for inclusion in the 2008 PRIME Oslo Conference.

Abstract should contain the following information:

- Name and affiliation of the author(s).
- Selected theme
- Research subject and hypothesis.
- Methodology.
- Existing and expected results.
- References.

Abstracts should not exceed 2 pages (6'000 signs). All abstracts will be peer-reviewed. All students attending the School must cover their travel and accommodation costs, as well as the cost of two dinners. Travel and accommodation costs of students coming from new EU member countries, will be covered by the School (until 5 students maximum) on the basis of the evaluation of the applications.

### Submission and deadlines

Application for participation have to be submitted electronically to [c.spaziani@ceris.cnr.it](mailto:c.spaziani@ceris.cnr.it) until 1<sup>st</sup> September 2007 using the application form available on the website. Answer on acceptance will be given not later than October 1<sup>st</sup> 2007. Papers or posters are due for the 1<sup>st</sup> November 2007.

## Programme

### MONDAY THE 5<sup>TH</sup>

- 14:30 Introduction of the Course  
Prof. Secondo Rolfo (Director of CNR-CERIS)  
Presentation of the Winter School  
Emanuela Reale (CNR-CERIS)
- 15:00 – 16:00 Key note speaker  
Conceptual framework and overview  
Prof. Rémi Barré (CNAM, France)
- 16:30 – 18:00 General discussion

### TUESDAY THE 6<sup>TH</sup>

#### Indicators on higher education

- Chair: Emanuela Reale
- 9:00 – 10:00  
The positioning of Universities  
lecturer: Ghislaine Filliatreau (OST, France)  
discussant: Rémi Barré, Cinzia Daraio
- 10:30 – 11:30  
Towards Indicators on University Third Mission  
lecturer: Annamaria Inzelt (IKU, Hungary)  
discussant: Rémi Barré, Bianca Potì
- 14:00 – 15:00 Key note speaker  
The Culture of Numbers: The Origins and  
Development of Statistics on Science  
Prof. Benoît Godin (INRS, Quebec, Canada)  
General discussion
- 16:30 – 18:00 Paper presentations by PhD students

### WEDNESDAY THE 7<sup>TH</sup>

#### Bibliometric and webometric indicators

- Chair: Annamaria Inzelt
- 9:00 – 10:30  
Baselines of a knowledge-based order  
lecturer: Loet Leydesdorff (ASCoR, The Netherlands)  
discussant: Benoît Godin, Benedetto Lepori
- 11:00 – 12:30  
Webometric indicators  
lecturer: Isidro Aguillo (CSIC, Spain)  
discussant: Benoît Godin, Loet Leydesdorff

#### Indicators on human resources and careers

- Chair: Bianca Potì
- 14:00 – 16:00  
Human resources indicators  
lecturers: Sveva Avveduto (CNR-IRPPS, Italy),  
Paloma Sanchez (UAM, Spain)  
discussant: Annamaria Inzelt, Emanuela Reale
- 16:30 – 18:00 Paper presentations by PhD students

### THURSDAY THE 8<sup>TH</sup>

#### Indicators on public funding of research

- Chair: Paloma Sanchez
- 9:00 – 11:00  
Indicators on research funding and expenditures  
lecturers: Benedetto Lepori (University of Lugano and OST, France) Emanuela Reale (CNR-CERIS, Italy)  
discussant: Bianca Potì, Cinzia Daraio
- 11:30 – 12:30  
Demonstration of the DB on Project Funding  
Benedetto Lepori

#### Indicators on Innovation

- Chair: Sveva Avveduto
- 14:00 – 16:00  
Indicators on innovation  
lecturers: Martin Meyer (SPRU, UK)  
Bianca Potì (CNR-CERIS, Italy)  
discussant: Joaquín M<sup>a</sup> Azagra-Caro, Annamaria Inzelt
- 16:30 – 18:00  
New Challenges for the Design of S&T Indicators  
lecturer: Benedetto Lepori

### FRIDAY THE 9<sup>TH</sup>

- Chair Bianca Potì
- 9:00 – 10:30  
Paper presentations by PhD students  
Poster discussion
- 11:00 – 12:00  
Methodological issues in S&T and Higher Education  
lecturer: Cinzia Daraio (University of Pisa, Italy)  
discussant: Joaquín M<sup>a</sup> Azagra-Caro, Bianca Potì
- 12:00 – 12:30  
The Aquameth database: data structure, some empirical evidence and open issues  
Cinzia Daraio

#### Round Table: STI Indicators for measuring the ERA dynamics: what needs?

- Chair: Emanuela Reale
- 12:30 – 13:30 Panel  
Isidro Aguillo, Sveva Avveduto, Joaquín M<sup>a</sup> Azagra-Caro, Cinzia Daraio, Annamaria Inzelt, Martin Meyer, Bianca Potì
- 13:30 Closing session