



SEPTEMBER 28–30, 2016

UNIVERSITY OF OVIEDO, ASTURIAS (SPAIN)

INTERNATIONAL SYMPOSIUM

MEANING AND MEASURES ON SCIENTIFIC CULTURE

grupo cts

WHAT DOES IT
MEAN TO BE
SCIENTIFICALLY
LITERATE?

JON D. MILLER

CALL FOR PAPERS

UNIVERSITY OF
OVIEDO

Campus del Milán
c/ Teniente Alfonso Martínez

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MEANING AND MEASURES ON SCIENTIFIC CULTURE

Civic scientific literacy should be conceptualized as involving three related dimensions: a vocabulary of basic scientific constructs sufficient to read competing views in a newspaper or magazine, an understanding of the process or nature of scientific inquiry, and some level of understanding of the impact of science and technology on individuals and on society.

Miller, J. (1998) "The measurement of civic scientific literacy"

The alternative is to think of literacy broadly – and scientific literacy specifically – as being the possession of a core set of intellectual constructs that provide the means to read, parse, and make some sense of a wider array of new information.

Miller, J. (2014) "The importance of Civic Scientific Literacy in a Just-in-time World"

Almost 20 years separate a quote from another and, in that time, many others definitions of "scientific literacy" have been proposed. Also a huge set of items have been developed to measure what kind of things makes a person scientifically literate. But, what does it mean to be scientifically literate? What is scientific culture? Are scientific literacy and scientific culture referring to different things? How much scientific culture is enough? They are all open questions. These and other issues will be discussed and analyzed by several research groups from different approaches but with a common concern about scientific culture and its measures.

Meaning and Measures of Scientific Culture

Oviedo, September 28 – 30

Programme

Wednesday, September 28th

Campus del Milán, Departmental building, Department of Philosophy, ground floor
C/ Teniente Alfonso Martínez s/n

12:00 – 14:00 CLOSED MEETING: CTS-TEAM (University of Oviedo)

Historic Building of the University of Oviedo, Severo Ochoa Chamber. C/ San Francisco 1

17:00 – 17:20 OPENING AND PRESENTATION

- Francisco José Borge López, Vice-Rector of University Extension and International Development (University of Oviedo)
- Emilio Muñoz Ruiz (CSIC-CIEMAT, Madrid)

17:20 – 18:15 PLENARY LECTURE

- Jon Miller (University of Michigan) "Information acquisition in the 21st Century: The emergence of the just-in-time-system"

18:15 – 18:30 Break

18:30 – 20:00 ROUND TABLE: "Meaning and Measures on Scientific Culture"

- Chair: Emilio Muñoz Ruiz (CSIC-CIEMAT, Madrid)
- José Antonio López Cerezo (University of Oviedo)
- Patricia Ávila (IUL, Lisboa)
- Miguel Ángel Quintanilla (University of Salamanca)
- Discussion

20:15 – 21:00 GUIDED VISIT – OLD TOWN OF OVIEDO

Thursday, September 29th

Campus del Milán, Administration building, Conference room. Second floor
C/ Teniente Alfonso Martínez s/n

10:00 – 13:00 SESSION I –MEANING ON SCIENTIFIC CULTURE

- Speaker: Jon Miller (University of Michigan)
- Discussant: Belén Laspra (University of Oviedo)

13:00 – 13:30 Break

Campus del Milán, Departmental building, Department of Philosophy, ground floor
C/ Teniente Alfonso Martínez s/n

13:15 – 14:30 CLOSED MEETING: CÁTEDRA IBÉRICA CTS+I (OEI)

Campus del Milán, Departmental building, Department of History, second floor
C/ Teniente Alfonso Martínez s/n

13:30 – 14:30 CALL FOR PAPERS A (see below)

14:30 – 16:30 Break

Campus del Milán, Departmental building, Department of History, second floor
c/ Teniente Alfonso Martínez s/n

16:30 – 19:30 RESEARCH GROUPS PANNEL: *WHAT DOES IT MEAN TO BE SCIENTIFICALLY LITERATE?*

- Ana Cuevas Badallo (Instituto eCyT, Salamanca)
- Cristina Palma Conceição (IUL. Lisboa)
- Gonzalo Remiro Ródenas (FECYT, Madrid)
- Ana Romero de Pablos (CCHS-CSIC, Madrid)
- Ana Muñoz van den Eynde (CIEMAT, Madrid)
- Marta I. González García (CTS Team, University of Oviedo)

Friday, September 30th

**Campus del Milán, Administration building, Conference room, second floor
C/ Teniente Alfonso Martínez s/n**

10:00 – 13:00 SESSION II – MEASURES ON SCIENTIFIC CULTURE

- Speaker: Jon Miller (University of Michigan)
- Discussant: Carmelo Polino (Redes, Buenos Aires)

13:00 – 13:15 Break

**Campus del Milán, Departmental building, Department of Philosophy, ground floor
C/ Teniente Alfonso Martínez s/n**

13:15 – 14:30 CLOSED MEETING: MASTER

**Campus del Milán, Departmental building, Department of History, second floor
C/ Teniente Alfonso Martínez s/n**

13:15 – 14:30 CALL FOR PAPERS B (see below)

**Campus del Milán, Departmental building, Department of History, second floor
C/ Teniente Alfonso Martínez s/n**

16:30 – 19:00 CALL FOR PAPERS C (see below)

Call for Papers

CALL FOR PAPERS A. Chair: Cipriano Barrio Alonso (University of Oviedo)

- Natalia Fernández Jimeno (University of Oviedo) – *Uninvited participation and scientific culture in women-users of reproductive technologies*
- Elena Denia (INGENIO, Madrid) - *The social media network approach to measure publiattitudes toward scientific evidence*
- Elena Avanzas Álvarez (University of Oviedo) - *“The Doctor is here” Gender and Science in contemporary forensic thrillers*

CALL FOR PAPERS B. Chair: Armando Menéndez Viso (University of Oviedo)

- Reeta Alexandra Konstenius (University of Helsinki) – *Could Value Sensitive Design vocabulary be a fit to opaque technologies?*
- José Acevedo (Porto University) – *Social engagement and literacy: How do they relate one another?*
- Rui Santos, Vânia Carlos & Teresa B. Neto (University of Aveiro) – *Math Teaching and the integration of ICT. A case of study with primary teachers*

CALL FOR PAPERS C. Chair: Juan Carlos Toscano (OEI)

- Marianella Maxera Abella (University of Oviedo) – *Scientific culture: a cultural psychology approach*
- Edurne Mezquita Yarza – *New forms of scientific production and popularization; the benefits of the wildlife research*
- Juan Andrés Sosa Pérez & Clara Elisa Miranda Vera (CEAC, Cuba) – *The handmade technological practices as expression of the cultural identity: Case study of the Urban Handmade Wine-culture in Cienfuegos, Cuba*
- Clara Elisa Miranda Vera & Juan Andrés Sosa Pérez (CEAC, Cuba) – *Social appropriation of the science and the main dilemmas in the social communication process of the science*

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