

Programme: Complexity and Narrative Integrating Sciences and Humanities for Science Education

International Exploratory
Workshop for founding
an Integrated Primary
Science Education (IPSE)
project at unibz

27–29 June 2022 — Campus Brixen-Bressanone, room 1.24

Invited speakers

Tiziana Altiero, University of Modena and Reggio Emilia
Giorgio Bolondi, Free University of Bozen-Bolzano
Michele Cagol, Free University of Bozen-Bolzano
Marco Caracciolo, Ghent University
Annamaria Contini, University of Modena and Reggio Emilia
Elisabeth Dumont, Zurich University of Applied Sciences at Winterthur
Hans Fuchs, Center for Narrative in Science, Winterthur
Alice Giuliani, University of Modena and Reggio Emilia
Stuart Glennan, Butler University
Francesco Gonella, Ca' Foscari University of Venice
Shannon Lambert, Ghent University
George Santi, Università di Macerata
Jorg Zabel, Leipzig University
Albert Zeyer, Pädagogische Hochschule Luzern

Programme

Monday, 27 June – Morning

9:00–9:30 Official address

9:30–10:15 **Federico Corni, Elisabeth Dumont, and Hans Fuchs**
Introduction, goals and overview. Integrating the sciences for the benefit of primary education

10:15–11:15 **Stuart Glennan**
Understanding necessity and contingency in narrative & mechanistic explanations

11:15 Coffee break

12:00–13:00 **Marco Caracciolo and Shannon Lambert**
Bridges to Complexity: Narrative and the Problem of Interconnectivity in Science Education

13:00 Lunch

Monday, 27 June – Afternoon

14:30–15:30 **Francesco Gonella**
Systems, ecology, and linking the sciences and society

15:30–16:30 **Michele Cagol**
Complexity, relationality, ethics, and pedagogy

16:30–17:00 Coffee break

17:00–18:00
Workshop discussion: how can the sciences be integrated for the purpose of primary education?

Tuesday, 28 June – Morning

09:00–11:00 **Annamaria Contini, Tiziana Altiero, and Alice Giuliani**
Knowing through metaphors: Research on the use of metaphors and narrative in biology education

11:00 Coffee break

11:30–12:30 **George Santi and Giorgio Bolondi**
Integrating mathematics in a cultural discourse for the classroom

12:30 Lunch

Tuesday, 28 June – Afternoon

14:00–15:00 **Jorg Zabel**
Including narrative realities into science. Examples of using stories in different fields of biology education

15:00–16:00 **Albert Zeyer**
Wilfried Sellars' stereoscopic view ("Two-eyed seeing") as a pedagogical instrument for integrating sciences and humanities in science education

16:00 Coffee Break

16:30–18:00
Workshop discussion: how can the sciences be integrated for the purpose of primary education?

Wednesday, 29 June – Morning

9:00–10:00 **Stuart Glennan**
What every child should know about scientific explanation.

10:00–12:00
Workshop discussion: Integrated Primary Science Education (IPSE) project

12:00–13:00 **Hans Fuchs and Federico Corni**
Summary and perspectives

Organizer

Federico Corni, unibz

Scientific committee

Tiziana Altiero (UNIMORE)
Annamaria Contini (UNIMORE)
Federico Corni (unibz)
Elisabeth Dumont (ZHAW)
Hans U. Fuchs (unibz)
Angelika Pahl (PHBERN)

unibz organizing committee

Federico Corni
Leonardo Colletti
Mita Drius
Alessandro Gelmi
Chiara Puecher
Luana Silveri
Sara Zanella

unimore organizing committee

Annamaria Contini
Tiziana Altiero

Faculty of Education – Free University of Bozen-Bolzano
in collaboration with the Department of Education and
Humanities of the University of Modena and Reggio Emilia

MultiLab



UNIMORE
UNIVERSITÀ DEGLI STUDI DI
MODENA E REGGIO EMILIA

unibz