Running IBSE courses in Italy beyond the Inquire project:
a success story

Costantino Bonomi
MUSE - Museo delle Scienze – Trento, Italy
Training courses run during the Inquire project

Two training courses for teachers and educators

“IBSE: COME UNO SCIENZIATO!”
corso di formazione per docenti ed educatori a.s. 2011/12 in Trento
Training courses run during the Inquire project

Two training courses for teachers and educators

“IBSE: COME UNO SCIENZIATO!”
corso di formazione per docenti ed educatori a.s. 2012/13 in Bergamo
Training courses run during the Inquire project

One training courses for trainers

Corso FORMIAMO I FORMATORI
«La diffusione dell’approccio IBSE nella didattica delle scienze» 28-31 agosto 2013

34 Participants that covered most italian regions (17 out of 21)

As part of the course they developed a plan to run an inquire course in the future in their region
Training courses run during the Inquire project

One additional course for MUSE staff attached to a partners meeting

MUSE staff training on IBSE - 4 October 2013
Aiming to incorporate IBSE in the museum education
Background:
MUSE commitment

- A science museum committed to support schools and educators in their teaching practice providing training opportunities and a variety of tools and resources to support teachers in their everyday practice. IBSE mainstreamed in the museum education policy and in its long term objectives.
Background: MUSE commitment

- A network of many sites where teachers and classes can book a variety of education activities in natural sciences (200+) implementing IBSE and active learning techniques (100,000+ kids visiting annually)

- two botanic gardens
- a new afromontane tropical greenhouse
Snowballing Inquire:

IBSE Opportunities offered:

- **Annual training course** for teachers and educators offered at MUSE at the end of the summer break (last week of August) "L’approccio IBSE nella didattica delle scienze". 20-22 August 2014 & 2015.
- **BSc. MSc. project** opportunities for university students
- **Ad hoc** and targeted courses upon request
- facilitating TTC participants to run their own courses
IBSE Opportunities advertised through:

- Museum **website**
- 3 annual **open days** at the museum for local schools and educators
- Museum **mailing list** of local teachers and educators
- Partnership with **local teacher training authorities**
- Specific presentations and advertising at national **conferences** on education and botanic gardens
- Social media facebook, e-forum
Inquire social media
Snowballing inquire:

Results after 1 year from the end of the project

- 4 courses run, **10** days, **70** contact hours, **174** participants (110 teachers & 64 educators) of which:
  - 1 annual course at MUSE (20-21-22.8.2014) 37 participants - 20€ per participant
  - 3 *ad hoc* courses requested by other institutions (museums and local parks 9-15.9.2014; 9-10.10.2014; 17.11-1-15.2014) thanks to the contacts made during the TTC
    Various costs depending on the partner institution - € 30pp or a flat rate of €140pp including meals and printed material.

**2** courses already planned:
  - MUSE annual course: 20-21-22.8. 2015
  - May 2016 - Ladin education department
Snowballing inquiere:

Results after 1 year from the end of the project

- Teachers: 110
- Educators: 64
Snowballing inquire:

Results after 1 year and 4 months form the end of the project

- 3 MSc. Thesis (in partnership with the University of Padua) developing new IBSE activities

  - Lisa Angelini 2012-2013 - in the museum botanical gardens on invasive species
  - Thomas Marchiorato 2014-2015 - in the museum the greenhouse on sustainability and global issues
  - Anna Giacon 2015-2016 in the museum education labs, under development
Inquire e-forum

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Planting the sausage tree (*Kigelia africana*)