

The ISEKI_Food network approach in the PhD studies in FS&T

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IMPORTANCE OF PhD studies

The importance of the PhD studies on the field of Food Science and Technology has been analysed in the European ISEKI_Food 4 project (www.iseki-food4.eu):



Iseki group at the 2nd Overall Meeting held in Kaunas, 2013.

AIM


“to further contribute to the development of the PhD programmes in Food studies, to create an opportunity for young scientists to interact, to exchange and share information, to promote conferences, seminars, webinars and forums of interest of the PhD students and tutor community”

ISEKI 4 Project: WP5


The image shows a blue banner for WP5 with a list of coordinators, core group members, and collaborators. Each name is accompanied by a small portrait photo. The ISEKI Food 4 logo is in the top right corner.

WP5

Coordinators:

- Oliver Schluter, Leibniz-Institut für Agrartechnik (Germany) 
- Chelo Gonzalez, Universitat Politecnica de Valencia (Spain) 

Core group:

- Cristina Silva, Portuguese Catholic University (Portugal) 
- Sam Saguy, The Hebrew University of Jerusalem (Israel) 

With the collaboration of:

- Stephane Desobry, INPL (Nancy, France) 
- Victoria Ferragut, Universitat Autònoma de Barcelona (Spain) 

To this aim, several activities have been carried out under the framework of a specific working group (WG5), which were focused on:

- collecting information about :
 - the current state of PhD studies,
 - the future career of the doctoral students,
 - most important competences for PhD students
- development of a PhD virtual platform (<https://www.iseki-food.net/phd/>)
- annual PhD newsletter

I FOOD4_PhDnet

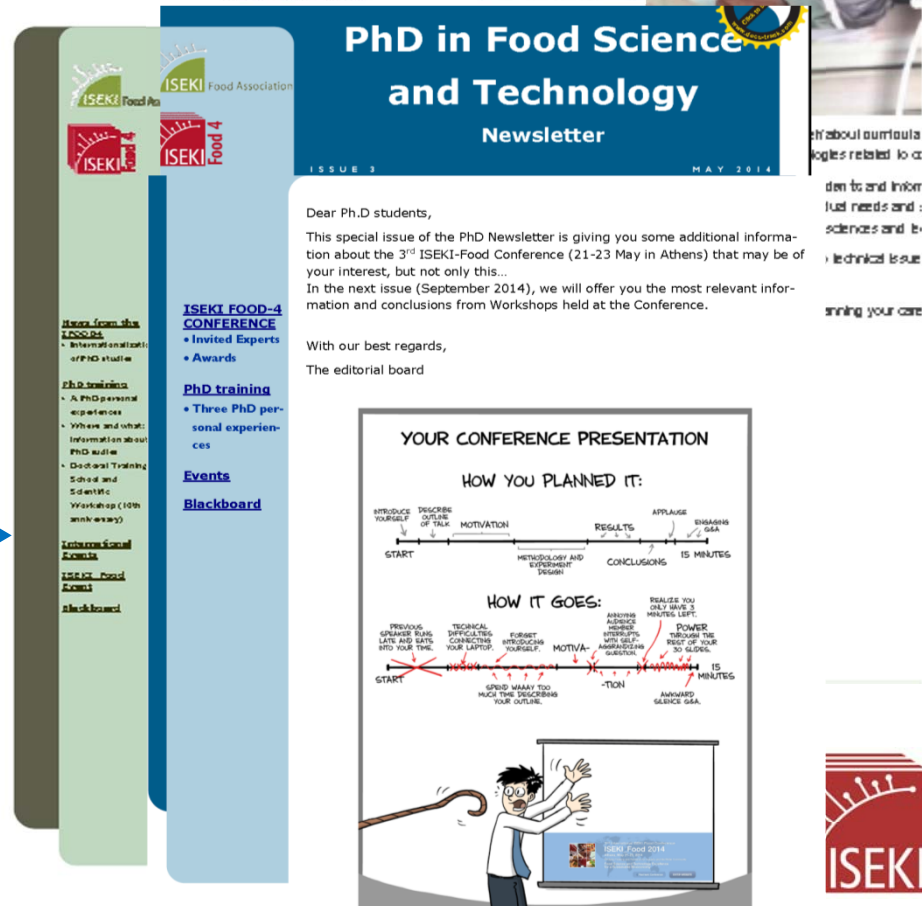
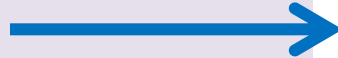
Virtual platform:

[IFA web page:](https://www.iseki-food.net/)

<https://www.iseki-food.net/>

PhD platform

- About us
- Objectives
- Training material
- Relevant PhD articles
- News for members
- PhD Newsletters
- Upcoming events
- Contact



PhD in Food Science and Technology Newsletter
ISSUE 3 MAY 2014

Dear Ph.D students,
This special issue of the PhD Newsletter is giving you some additional information about the 3rd ISEKI-Food Conference (21-23 May in Athens) that may be of your interest, but not only this...
In the next issue (September 2014), we will offer you the most relevant information and conclusions from Workshops held at the Conference.

With our best regards,
The editorial board

YOUR CONFERENCE PRESENTATION


HOW YOU PLANNED IT:

INTRODUCE YOURSELF (1 MINUTE) | DESCRIBE OUTLINE OF TALK (1 MINUTE) | MOTIVATION (1 MINUTE) | METHODOLOGY AND EXPERIMENT DESIGN (1 MINUTE) | RESULTS (1 MINUTE) | CONCLUSIONS (1 MINUTE) | APPLAUSE (1 MINUTE) | THANKS (1 MINUTE) | 15 MINUTES

HOW IT GOES:

PREVIOUS SPEAKER RUSHES IN AND SAYS INTO YOUR TALK (1 MINUTE) | TECHNICAL DIFFICULTY CONNECTS YOUR EXPOSURE (1 MINUTE) | FORGET TO INTRODUCE YOURSELF (1 MINUTE) | MOTIVATION (1 MINUTE) | RESULTS (1 MINUTE) | CONCLUSIONS (1 MINUTE) | APPLAUSE (1 MINUTE) | THANKS (1 MINUTE) | 15 MINUTES

SPEND MANY TOO MUCH TIME DESCRIBING YOUR OUTLINE. | REALISE YOU ONLY HAVE 3 MINUTES LEFT. | ARRIVING LATE WITH GELATIN AND SUGAR QUESTION. | POWER THROUGH THE BACK OF YOUR 30 GLOVES. | AVOIDED GLANCE GEA.



Objective

To present the most relevant activities and results obtained in the project related with PhD studies

Methodology

Different surveys = f(objective)
Surveys for academia
Survey for industry partners

Results

Based on around 200
answers from 35 countries.

May we have
just a few
minutes of
your time?



Importance /Role of PhD studies

Survey respondents agreed that the attainment of a PhD degree ...



ACADEMIA



INDUSTRY

- increases the job opportunities of graduates.. in Academic sector (77%) and in Research Centers (15%)
 - Provides a better paid job/salary (54%)
 - Provides a well-trained future workers for
 - Academia (92%)
 - Research Centers (90%),
 - Industry sector (58%).
 - Business sector (21%).
- Increases the job opportunities in the following order:
Academia > Research Center > Research sector > Industry > SME.
 - Provides a better paid job/salary (46%)
 - Provide a well-trained future workers for
 - Academia (96%)
 - Research Centers (98%)
 - Industry sector (32%).
 - Business sector (28%)

← NO →

Identifying needs and skills for the future



93% survey respondents also agree that PhD students **will need new skills** to face the future labour market prospects.

What are the most valuable skills???



Top 3 most relevant competences



ACADEMIA

INDUSTRY



To demonstrate flexibility and open-mindedness, when working with different environments and people

GENERIC

To show ability to handle difficulties in research in an appropriate manner.

To show ability to react quickly and effectively to unpredictable situations.

To write reports fluently and efficiently

To show ability to communicate effectively to a broad framework of audiences.

SPECIFIC

To demonstrate original, independent and creative thinking.

To formulate and apply solutions to research problems and effectively interpret research results.

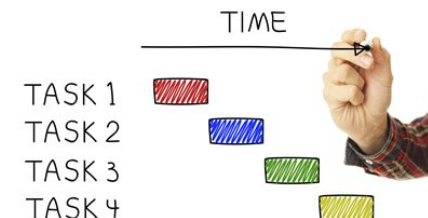
To develop new research projects

To apply effectively project management

Recommendations

How to integrate these valuable skills into the curricula of PhD students?

- To enhance the mobility of students to different labs, countries: international PhD, collaborations between university, university-industry
- To promote the preparation and defense of the thesis by collection of research papers and critical reviews.
- To enhance the oral participation of students into national and international conferences, workshops, seminars, etc.
- To promote the oral participation of students into non-scientific audiences: public workshops, fair, schools, television, radio..
- To favor students participation in the management procedures of current research projects and preparation and submissions of new proposals.
- To involve them actively into the coordination of master thesis projects or similar (final projects of undergraduate students).



Is important to have International degree/collaboration at PhD level?

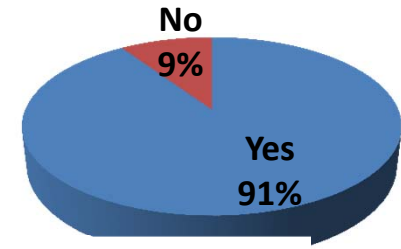


Figure 1. Word-cloud generated by using the text of the responses obtained when asking about the importance of the establishment of an International degree/collaboration.

Figure 2. Word cloud generated by using responses when asking about the main barriers encountered to implement such International degree/collaboration.

REPORT CONCLUSIONS

Emerging changes in the organization of doctoral training are being witnessed by the development of new doctoral schools in many European countries.

RETHINKING PHDS!

Fix it, overhaul it or skip it completely – institutions and individuals are taking innovative approaches to postgraduate science training.

BY ALISON MCCOOK



CONCLUSIONS

Competences related with **personal effectiveness, communication skills**, research skills and techniques and research **management** are considered to be the most valuable skills to be acquired by our PhD students to face the future needs of the labour market.

CONCLUSIONS

Non-conventional structured programmes of activities are needed, ranging from advanced seminars and courses in research topics to training in transferable skills to face the changes in the labour market prospect of doctoral graduates and act as a 'quality label' in enhancing the career opportunities of PhD' graduates.

Courses in marketing and communication are useful for any scientist, even those who stay in academia, says Vanderford. "Regardless of the career path a PhD would take, having those courses would be helpful."

project management

business basic

public policy

Focused seminars in areas as communication would go a long way towards strengthening the capabilities of PhD students and improving their career prospects (Fiske, 2011).

Future of PhD studies

Expanding the PhD experience and preparing holders of scientific doctorates to be successful in a range of careers should be our main goal.



THANKS FOR YOUR ATTENTION!!!!!!!!!!

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