The Iseki Food Projects (IFOOD4 & TRACK_FAST) and the ISEKI Food Association

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19° September 2012, Freising (DE)
Education Workshop - FOODBEST

Food sector, chain and stakeholders
Food sector, chain and stakeholders

Education: goals and responsability

To improve and allow the development of the society by
- transfer of knowledge
- development of skills and expertise of students and trainees, meeting the expectations of
  - consumers
  - job market
**Education: engagement**

Teaching and learning are human activities **involving several actors** with different backgrounds, different expectations and responsibility.

**This is of pivotal importance** in the context of the Higher Education in Food Studies, with stakeholders that are, researchers, academic staff, professionals, industry, societal representatives and students.

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**Main training and educational goals of HE institutions**

- Quality standards (certification, label)
- Internationalisation
- New skills for new jobs

**while facing issues like.....**

- New generation of students
- Internet-social network
- Web 2.0 generation
- Lower financial support to HE
- Resistance to changes
- ...lower importance of Food Science and Technology studies/curricula
- Competition from other scientific fields
Main training and educational goals in the Food sector

- Quality standards (certification, label)
- Internationalisation
- New skills for new jobs

while facing issues like.....

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“Life cycle” of a Food professional career path

Industry
Governmental Research Consultancy
Family Life and Basic Studies
Choice of area of studies

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Food Professional
Food Scientists
Food Technologist, ...

Pittia P. The ISEKI_Food projects....
Key characteristics of graduates in Food Studies

- **Technical speciality**
- **Education and Training**
- **Ethical & society impact/role of profession**

Multidisciplinary Transdisciplinary

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Bridges between stakeholders

- **Central and key role**

EDUCATION/RESEARCH/INDUSTRY INTERFACES TOWARDS THE INNOVATION OF THE FOOD CHAIN

What kind of STRATEGIES?

State of the art

Leader International associations and societies (transversal)
- Institute of Food Technologist, IFT (1939, USA)
- International Union of Food Science and Technology – IUFOST (1970, USA)

Industry associations
- in EU, FoodDrinkEurope (ex Confederation of the food and drink industries of the EU) & European Technology Platforms (ETPs)
- Hundreds of sector-related and national based industry associations...

Various research and development centers dealing with training...

Specific research, economic, societal OBJECTIVES
Sometimes not correct strategies
The Bologna process (1998) is the product of a series of meetings aimed to the creation of the European Higher Education Area by making academic degree standards and quality assurance standards more comparable and compatible throughout Europe, in particular under the Lisbon Recognition Convention, in order to:

- Harmonise architecture of study programmes and favour students mobility
- Enhance the employability and mobility of citizens in EU
- Increase the international competitiveness of European higher education.

### 2010
- Education, Research & innovation
- International Openness
- Mobility

Objectives for the development of a network of Universities and stakeholders in the Food area in EU

Academic studies in Food Science and Engineering are strongly multidisciplinary: chemistry, biochemistry, physics, microbiology, process engineering and technology, management, logistics, market studies, informatics...

That gives a full justification to organize a network of universities dealing with Food Studies, with different specialities, but all working for the same aims: education and research for the benefit of consumers through food industry.

Our role and duty as researchers and teachers is to develop mutual knowledge, exchange of ideas, at a European and International level to be able to participate in the development of all countries, locally and everywhere, to give right answers to an international changing market.

The history of the ISEKI_Food projects....


Internationalisation
Sustainability and Exploitation
Innovation

Main objectives and activities of the past ISEKI_Food projects

• **Education and Training**
  Implementation of the Bologna process
  Tuning curricula in Food Studies and Minimum Requirements
  Innovative teaching and training materials
  Quality assurance of European Food Studies

• **Development of interfaces and promote synergies** between research in Food Science and Engineering with Education/Teaching and Industry

• **Establish communication** with the general public and the consumers

• **Virtual community** of experts in the field of food
Main outcomes of the past ISEKI-ISEKI_Food 3

Education and Training

• Tuning curricula in Food Studies and Minimum Requirements (reference document for new curricula in FST)
• Innovative teaching and training materials
• Quality assurance label of European Food Studies

Education-Reseaerch-Industry interactions

- e-journal
- ISEKI_Food Conference
- Innovative teaching and training materials

See: www.iseki-food.eu
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**STUDENT MOBILITY EXPERIENCES**

Are you a student looking for a studying or mobility experience? If so, take a look at our database of mobility experiences compiled by students returning from mobility experiences. These reviews can provide an overview of the experiences and include important practical information on living costs such as food, accommodation, and transportation. Help us shape your future!

**FOOD EXPERTS DATABASE**

Designed to satisfy the needs of food industry professionals, academics, and students alike, the Food Experts database has been created to enable you to find, or to promote yourself as, an expert with substantial knowledge and expertise in a variety of food-related issues. Search the database to connect with colleagues in the food industry, or drop us a line if you would like to add volume to our database or to present your ideas in a short or long format to funded by experts who could be a food consultant, collaborator or mobility experiences supervisor.

http://food4mobility.net

**MOBILITY INSTITUTIONS INFORMATION DATABASE**

Whether you are a student or an academic staff member looking for mobility, or an institution looking for international cooperation, you can find all information in the mobility institutions database. Search by country, discipline, and language for more specific information.

Visit our website to learn more about the PICAN Food platform and to access the bullet in other languages.

International Journal of Food Studies
The ISEKI_Food Conference Series
www.isekiconferences.com

To promote constructive dialogue and collaboration on relevant topics on: Food Science and Technology Industry and Education

An International “open” forum for all the stakeholders of the whole food chain (students, researchers, education scientists, Technologists, Representative of government agencies, Industry representatives and trainers, Food consumers and Wider community)

3°Int. ISEKI_Food, May 2014 (Greece)
Continual Professional Development for the future Food Scientists and Technologist

Actions and ongoing ISEKI_Food projects

ISEKI_Food-4: Towards the innovation of the Food Chain through the modernisation of Food Studies
IFOOD4

Erasmus Academic Network
51815-LLP1-2011-1-IT-ERAMUS-EW
1 October 2011- 30 September 2014

86 EU partner from 27 eligible countries
3 no EU partners
+ 42 associated partners from all over the world

www.iseki-food4.eu
IFOOD4: rationale

- Enhancing employability to serve Europe's needs
- Providing Quality Higher Education for all
- Strengthening mobility for better learning
  - Academic and professional recognition
  - Joint programmes and degrees
  - International openness

See also EHEA, Bucarest Communiqué, April 2012

IFOOD 4 - Main objectives and expected outcomes

- Modernising and upgrading the education and training of Food studies
- Implementing the labour market role of the third level of education (PhD programmes, in particular) in promoting the employability and entrepreneurship of the graduated FS&T and Food professional
- Lecturing qualification of university teaching staff

Toolbox for modernisation and internationalisation of curricula in Food studies
Innovative teaching tools
Virtual platform for PhD students networking and training
Teaching staff framework and pilot summer school
Actions and ongoing projects

**TRACK_FAST (www.trackfast.eu)**

Training Requirements And Careers for Knowledge-based Food Science and Technology in Europe
FP7 KBBE 227220
September 2009 – February 2013

T_F - Main objectives and expected outcomes

"Identification of the training and career requirements of future European food scientists and technologists (FST), and implementation of a European strategy to recruit the next generation FST leaders".

- Update education/training based on actual and future food job market needs
- Promotion of FST to attract students
- Establishment of a framework for continual professional training and career development for the FST professionals
- Regulation of FST professions in Europe

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T_F – Activities and expected outcomes

- Identification and definition of personal skills requirements in food job market
  - Survey to stakeholders, brainstorming workshop
- Developments for the regulation of food science and technology professions in Europe

Establishment of a framework for Continual Professional training and career development for the FST professional.

www.foodcareers.eu

Better prepared PROFESSIONALS
Motivation of young people to enter and pursue a career in food science and technology in Europe.

www.foodgalaxy.eu

To show prospective students

Food Science is a **real science with real challenges**

**Careers** in Food Science and Technology
Sustainability of the ISEKI_Food project:
ISEKI_Food Association

www.iseki-food.net
IFA is an independent European non-profit organisation, founded in 2005 as an outcome of 10 years of Thematic Network activities for all stakeholders in the food supply chain with regard to education, research, legislation and communication.

226 individual and 36 company members from 61 countries around the world

1 sub-section: Indonesia

EDUCATION/RESEARCH/INDUSTRY INTERFACES TOWARDS THE INNOVATION OF THE FOOD CHAIN

INDUSTRY

EDUCATION & TEACHING

RESEARCH

WIDER COMMUNITY
**EDUCATION/RESEARCH/INDUSTRY INTERFACES TOWARDS THE INNOVATION OF THE FOOD CHAIN**

Further approaches and tools under evaluation for further projects:

- Development of FS&T HE programmes meeting society and job market expectations
- Implementation of the role of industry in training and teaching to favour the development of the desired and required skills
- Implementation of interactions with the other policymakers
- Internationalisation
- Continual professional development and certification
Thank you for the kind attention

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