FIBRA - Fibre Crops as sustainable source of biobased material for industrial products in Europe and China

Summer School
Catania-Italy
21-27 July 2013

“From Production to the Final Use”

Organized by
Dipartimento di Scienze delle Produzioni Agrarie e Alimentari – DISPA
University of Catania
Prof. S. L. Cosentino
Work package leader of WP4
Introduction

In the frame of FIBRA project, two summer schools will be organized. The first will take place from 21st to 27th of July in Catania-Italy organized by UNICT and the second will take place in Changsha (China) in summer 2015 and will be organized by IBFC in collaboration with CRES.

The first summer school is designed to promote the communication between experts and students about the key issues of fibre crop production, processing and application. Attention is paid towards the breeding of fiber crops, their ecological adaptation and best agricultural practices, the relationship between plant, soil and atmosphere, the quality and efficiency improvement of product diversification leading in improved markets and enhanced economic for sustainable fibre crop production.

Objectives

The opportunities to create networks and cooperation between experts from different disciplines and countries will result in a better exchange of know-how and is expected to bring the state of the art of fibre crop utilization to the highest level.

Course length and venue

The course will last 7 working days from 21st to 27th July 2013 and will be organized by the DISPA ‘Dipartimento di Scienze delle Produzioni Agrarie e Alimentari’ of the University of Catania, via Valdisavoia 5, 95123, Catania in collaboration with FIBRA coordinators, CRES. The venue classes will be held at the Hotel 4SPA, via Nazionale SS 114 KM 91/VII Acicastello-Catania, Catania, Italy (www.4spa.it).

Students

This course is mainly addressed to Ph.D or post doc students in agricultural branches, but it also open to young researchers involved in fiber crop production from various perspectives. The number of students will range between a minimum of 25 and a maximum of 40 participants. A selection will be made according to brief and rational curriculum vitae (C.V. maximum 1 page), previous and on-going research activities on fiber crops. The CV, together with the application form, has to be sent to the secretariat email within the deadline.

The English language knowledge is required, given that all lectures and exercises will be run by English speakers.

Applications will be accepted upon reception of the course fee payment. Each student should preferably have its own laptop.

Six students will be supported by the Italian Society of Agronomy (SIA) in double rooms. Preference will be given if students are already member of the SIA.
Abstracts
The Organising Committee invites young student Researchers (PhD, Post Doc) and industry staff to submit abstracts for poster presentation. Each author will be invited to present the content of the poster in an “oral flash presentations (5 slides, 5 to 10 min) and will discuss it during the poster evaluation sessions. Two prizes for the best poster will be nominated; one being reserved to PhDs and the other to Post Docs. Abstracts will be submitted electronically using the Poster Application Form available on the FIBRA website.

Cost
The course fee is € 350 (double room application) and € 500 (single room application), comprehensive of meals, lodging, teaching material, transfer from/to airport and excursions. Flight to Catania is not included. More information on the payment modalities will be given after deadline.

Teaching material
The student will receive hand-outs (including teaching material, pencils, pens, notebook, etc.) during the introduction to the course in order to allow a preliminary approach to teaching material before the course.

Teachers
The course coordinator is Professor Salvatore Luciano Cosentino, University of Catania - DISPA, while other professors, researchers and specialists, belonging both inside and outside FIBRA network will give lectures according to their expertise. Room tutors will be also involved.

Important dates
The application form must be sent by email, before 31st of May 2013 to the Secretariat of the Summer school at the following address: fibrafp7@gmail.com. A brief C.V. together with the application form should be also enclosed.

The deadline of the abstract submission will be on 10th of June, while the deadline for the acceptance of the abstracts will be 25th of June 2013.

The deadline for Registration fee payment will be 1st of July 2013.

Programme of activities
Sunday 21st July 2013: Arrival to Catania airport, Transfer to the hotel, Welcome & Get-together

Monday 22nd July to Friday 27th July 2013: Classes in six sections
- I section: Genetics, breeding and genomics;
- II section: Agronomy, adaptation and cultural practices;
- III section: Harvesting and Logistics;
Summer school of FIBRA (www.fibrafp7.net), Catania- Italy, 21-27 July 2013

- **IV section: Biobased Products;**
- **V section: Markets;**
- **VI section: Socio economics and environmental implications**

Friday 26th July 2013 End of classes, Certificate Delivery, Visit to Catania and Farewell party. Saturday 27th July 2013 Visit to Taormina and Transfer to Catania Airport.

**Lecturers**

- Prof. Salvatore L. Cosentino - Dipartimento di Scienze delle Produzioni Agrarie e Alimentari, University of Catania, Italy
- Prof. Fang Pingping - Fujian Agriculture and Forestry University, China
- Prof. Liu Feihu Professor, Yunnan University
- Prof. Li Defang - Institute of Bast Fiber Crops in Changsha, China
- Dr. Efi Alexopoulou - Biomass Department, CRES, Greece
- Dr. Myrsini Christou - Biomass Department, CRES, Greece
- Dr. Christos Zafeiris - Biomass Department, CRES, Greece
- Prof. Peter Soldatos - Agricultural University of Athens, Greece
- Dr. Sofi Jankauskiene - LRCAF, Lithuania
- Dr. Jan van Dam, Wageningen UR, Food & Biobased Research, The Netherlands
- Dr. Alessandro Zatta - Dipartimento di Scienze e tecnologie Agroambientali, University of Bologna, Italy
- Dr. Luigi Pari - Unità di Ricerca per l’Ingegneria Agraria, Centro per la Ricerca e la Sperimentazione in Agricoltura, Italy.
- Dr. Przemo Baraniecki, INF&MP - Institute of Natural Fibres and Medicinal Plants, Poland.
- Prof. K. Heller, INF&MP - Institute of Natural Fibres and Medicinal Plants, Poland
- Dr. Electra Papadopoulou, CHIMAR Hellas
- Prof. F. Gemtos, Agricultural University of Thessaly, Greece
- Dr. Theodoros Vafeiadakis, Ministry of Rural Development and Food, Greece
- Prof. Ana Luisa Fernando, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, Portugal
- Prof. A. Kokossis, National Technical University of Athens, Greece
- Prof. D. Bikiaris, Aristotelion University of Thessaloniki, Greece
- Mr. Sylvestre Bertucelli, Interchanvre, France
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<tr>
<th>Time</th>
<th>Monday, July 22&lt;sup&gt;nd&lt;/sup&gt;</th>
<th>Wednesday, July 24&lt;sup&gt;th&lt;/sup&gt;</th>
<th>Friday, July 26&lt;sup&gt;th&lt;/sup&gt;</th>
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<tbody>
<tr>
<td>9:00</td>
<td><strong>Aspects of conventional flax breeding</strong>&lt;br&gt; JANKAUSKIENE</td>
<td><strong>Post-harvest fibre processing and use</strong>&lt;br&gt; VAN DAM</td>
<td><strong>Fibre crops in a cascade biorefinery concept</strong>&lt;br&gt; ZATTA</td>
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<td>10:00</td>
<td><strong>Climatic conditions, soil properties and crop physiology of fiber crops</strong>, S.L. COSENTINO</td>
<td><strong>National and European support systems to hemp and flax industry</strong>, S. BERTUCELLI</td>
<td><strong>Environmental Impact assessment of fiber crops cultivation and use</strong>, A. FERNANDO</td>
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<td>11:00</td>
<td>Coffee break</td>
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<td>11:15</td>
<td><strong>Kenaf – Agronomy and biomass yields in Europe</strong>, E. ALEXOPOULOU</td>
<td><strong>Bast fibre crops as feed crops</strong>, VAFEIADAKIS</td>
<td><strong>Economic evaluation of fibre crops</strong>, P. SOLDATOS</td>
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<td>12:15</td>
<td><strong>Crop management of fibrous flax in Europe</strong>, K. Heller</td>
<td><strong>Biogas production from fibre crops</strong>, ZAFEIRIS</td>
<td><strong>Economic evaluation of fibre crops</strong>, P. SOLDATOS</td>
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<td>Lunch</td>
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<td>14:30</td>
<td><strong>Crop Management of hemp in Europe</strong>, S. L. COSENTINO</td>
<td><strong>Presentation of the students papers Evaluation of Sessions I, II</strong></td>
<td><strong>Certificate delivery</strong></td>
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<td>15:30</td>
<td><strong>Grass fibres – Agronomy and Yields in Europe</strong>, M. CHRISTOU</td>
<td><strong>Presentation of the students papers Evaluation of Sessions III, IV</strong></td>
<td><strong>Visit to Catania</strong></td>
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<td>9:00</td>
<td><strong>Jute breeding and new variety extension in China</strong>, FANG PINGPING</td>
<td><strong>Synthesis of polymers form fiber crops</strong>, D. BIKIARIS</td>
<td><strong>Visit to Taormina</strong></td>
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<td>10:00</td>
<td><strong>The key techniques for hemp cultivation in South and North part of China</strong>, LIU FEIHU</td>
<td><strong>Value added industrial products from bast crops</strong>, E. PAPADOPOULOU</td>
<td><strong>End of the summer school and transfer to airport</strong></td>
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<td><strong>Wastewater reuse in the irrigation of fibre crops as a strategy for combating desertification</strong>, A. FERNANDO</td>
<td><strong>Bast fibre crops for lignocellulose markets</strong>, J. VAN DAM</td>
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<td>12:15</td>
<td><strong>Bast fibre crops harvesting</strong>, L. PARI &amp; A.SCARFONE</td>
<td><strong>Sustainable products from bast fibrous for European Knowledge-based economy</strong>, P. BARANIECKI</td>
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<td><strong>Kenaf breeding and development in China</strong>, PROF. LI DEFANG</td>
<td><strong>Friendly to the environment biomass production from kenaf and fiber sorghum</strong>, F. GEMTOS</td>
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<td>15:00</td>
<td><strong>High-throughput evaluation of biomass routes</strong>, A. KOKOSSIS</td>
<td><strong>Presentation of the students papers Evaluation of Sessions V, VI</strong></td>
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