Applications

• Bio-Composites
• CBD as Food Supplement and Pharmaceutical
• Construction
• Fibres & Shives
• Hemp Seeds, Oil and Proteins
• Insulation
• Textiles

Spectrum of Participants

• Cultivation Consultants
• Engineers
• Hemp Food and Feed Industry
• Natural Fibre Industry
• Pharmaceutical Industry
• Research and Development
• Traders and Investors
Preface

Record cultivation of industrial hemp in Europe in 2016

Especially hemp food and pharmaceuticals face strong demand – Worldwide largest conference on industrial hemp in Cologne (Germany) in June 2017

Hemp is a multi-purpose crop, delivering fibres, shivs, seeds and pharmaceuticals. Currently, the fibre is used for lightweight papers, insulation material and biocomposites. The shivs, the woody inner core of the stem, are used for animal bedding and construction. Hemp seeds, small nuts with a high nutritional value, can be consumed raw or pressed into hemp seed oil, which has an excellent and unique fatty acid profile. Both seeds and oil are used for human food and animal feed. The non-psychotropic Cannabinoid CBD is an interesting pharmaceutical material and food supplement ingredient also derived from industrial hemp.

Between 1993 and 1996, the cultivation of industrial hemp was legalised in most EU
member states, others followed later. In 2011, the cultivation area decreased to its lowest value since 1994 (ca. 8,000 ha), but increased continuously in the years 2012 to 2016, to finally reach more than 33,000 ha in 2016. Today, the cultivation area for industrial hemp covers the largest area since the second world war.

The European Industrial Hemp Association (www.eiha.org) expects almost constant or moderately growing cultivation areas in the next years. The main cultivation areas are in France, the Netherlands, the Baltic Countries and in Romania. In recent years, many new European countries started or expanded their hemp cultivation, mainly to produce more hemp seeds for the health food market. In the last years, hemp food products have entered the mass consumer markets via supermarkets in Austria, Germany, The Netherlands and more countries.

But also the hemp fibre sector is expanding, covering the increasing demand of the automotive industry. European hemp fibres are the only natural fibre worldwide with an established sustainability certification (www.iscc-system.org).

Investments and market growth are especially high in non-psychotropic hemp extracts and for the Cannabinoid CBD, which is used in pharmaceutical applications as well as in the food supplement industry. Here, a patchwork of regulations in Europe is a barrier for faster market growth.

All of these topics will be highlighted and discussed at the biggest event on industrial hemp worldwide, the 14th International Conference of the European Industrial Hemp Association, 7 – 8 June 2017, Cologne (Germany) (www.eiha-conference.org). More than 300 participants from 40 countries are expected. It is the meeting point of the hemp industry worldwide. Don’t miss this unique opportunity to meet the pioneers in this fast expanding business sector in one place.

The nova team wishes you an exciting and inspiring conference and fruitful networking opportunities.

Best regards,
Michael Carus

Your Conference Team

Michael Carus
Managing Director of the European Industrial Hemp Association and of nova-Institute

Dominik Vogt
Exhibition, Sponsoring
+49 (0)2233 4814-49
dominik.vogt@nova-institut.de

Jutta Millich
Partners, Media Partners
+49 (0)2233 4814-40
jutta.millich@nova-institut.de

Vanessa Kleinpeter
Contact, Registration, Organisation
+49 (0)2233 4814-40
vanessa.kleinpeter@nova-institut.de

Dr. Asta Partanen
Sponsoring
+49 (0) 151 1113 0128
asta.partanen@nova-institut.de

Best regards,
Michael Carus
INTRODUCTION
10:00 Michael Carus
 nova-Institut GmbH
 Conference Opening

COUNTRY REPORT
CHAIRMAN: MICHAEL CARUS (NOVA-INSTITUTE)
10:10 Mark Reinders
HempFlax BV
Cultivation & Processing of Industrial Hemp in Europe

10:30 Anndrea Hermann
Canadian Hemp Trade Alliance / Hemp Industries Association
Canada and USA Update: Regulatory Change, Cultivation, Production

10:50 Rohit Sharma
Indian Industrial Hemp Association (IIHA)
Indian Hemp Developing Food and Fibre Market and Data

CULTIVATION & PROCESSING
CHAIRMAN: PROF. DR. STEFANO AMADUCCI
(UNIVERSITÀ CATTOLICA DEL SACRO CUORE)
11:40 Dr. Nicole Ward Gauthier
University of Kentucky
A New Crop in the US Results in Both New Diseases and Familiar Ones

12:00 Michael Dickeduisberg
Landwirtschaftskammer Nordrhein-Westfalen
Dr. Heiko Beckhaus
NFC GmbH Nettle Fibre Company
Hemp in Germany – Renaissance as Winter Cover Crop for High Quality Textile Hemp-Fibres

12:20 Arnaud Day
Fibres Recherche Développement
Quality Management of Hemp Straw: From Plant to Agromaterial With a Focus on Thermoplastic Composites

12:40 Prof. Dr. Stefano Amaducci
Università Cattolica del Sacro Cuore
Controlling Hemp Fibre Quality in the Field: the Multihemp Experience

11:10 COFFEE BREAK
13:00 LUNCH BREAK

Venue and Hotel
Maternushaus
Kardinal-Frings-Straße 1–3
50668 Cologne, Germany
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Fax: +49 (0)221 1631-215
info@maternushaus.de
www.maternushaus.de
1st Day, 7 June 2017 (10 a.m. – 6 p.m.)

**BIOCOMPOSITES**

14:30 Mark Reinders  
HempFlax BV  
Why You Should Use European Hemp Fibres for Your Automotive Applications?

14:50 Thitivara Poonsawat Ph.D.  
Kasetsart University  
Dr.-Ing. Nina Graupner  
& Prof. Dr. Jörg Müssig  
Hochschule Bremen – City University of Applied Sciences  
Thai-German Agro-based Fibre Exchange Programme – Sustainable Development: From Plant to Product

15:10 Rachele Invernizzi  
South Hemp Tecno Srl.  
Italy has Awakened - Federcanapa, Bio Plastic & Bio Construction

**BUILDING & CONSTRUCTION**

CHAIRMAN: PROF. DR. JÖRG MÜSSIG  
(HOCHSCHULE BREMEN – CITY UNIVERSITY OF APPLIED SCIENCES)

15:25 Antonio Trionfi Honorati  
FEDERCANAPA  
A House Made Out of Hemp-Straw-Bales, Now It’s possible!

15:35 Matteo Montecchi  
CMF Greentech Srl.  
LIVING HEMP – CANAPAlthos and CMF Greentech Project

15:55 Prof. Gie Steenput  
Avans University of Applied Sciences  
Designing and Building a Children’s Bamboo & Hemp Playground

16:15 COFFEE BREAK

CHAIRMAN: STEVE ALLIN  
(INTernational HempBUILDing ASSOCIATION)

16:45 Laurent Goudet  
Akta B.V.P. – Development Chanvre  
Hemp Concrete, 16 Years of Building by Dry Spraying

17:05 Monika Brümmer  
Cannabric and Adrar Nouh  
Parameters That Have Influence on the Properties of Hemp-Concrete Systems

17:25 Wolf Jordan  
Jordan & Co. bvba  
Building With Hemp-Lime

17:45 END OF FIRST DAY

20:00 DINNER BUFFET
Programme

FOOD
CHAIRWOMAN: ANNDREA HERMANN
(THE RIDGE INTERNATIONAL CANNABIS CONSULTING)

9:00 Rafael Dulon
HANF FARM GmbH
Superfood Hemp: Food and Food Supplements based on Hemp Seed, Leaves and CBD

9:25 Paul Benhaim & Harry Youngman
Hemp Foods Australia
Australian – Hemp, THC and Changing Environment

9:50 Daniela Sfrija
Canah International SRL
Daniel Kruse
Hempro Int. GmbH & Co. KG
Quality Management of Hemp Grains

10:15 Bettina Wagner
Federal Institute for Risk Assessment
Transfer of THC and THC-Congeners from Feed to Food: Preliminary Results of Studies in Dairy Cows

10:40 COFFEE BREAK

11:10 Anne Sophie Gamborg
Møllerup Gods
Moving Hemp Foods and Cosmetics from a Few Health Conscious Consumers to all Households

11:35 Hongliang Ding
Hempfortex
Hemp Cultivation in China and Markets for Hemp Food and CBD

12:00 Keith Jones
Canadian Hemp Trade Alliance
Update on Canada: Cultivation, Hemp Food and CBD
2nd Day, 8 June 2017 (9 a.m. – 6 p.m.)

CANNABIDIOL (CBD) AND OTHER CANNABINOIDs
CHAIRMAN: BORIS BANAS (CBDEPOT, S.R.O.)

12:25 Boris Banas
CBDdepot, s.r.o.  
General Update on CBD Regulations in Europe

15:15 Joscha Krauß
MH medical hemp GmbH  
Cannabidiol – From Farm to End Product

12:50 LUNCH BREAK

14:00 Michael Carus
nova-Institut GmbH  
Overview on EIHA’s latest CBD und THC Publications & Petitions

14:25 Daniel Kruse
HempConsult GmbH  
Market Data on Hemp Food and CBD – Key Markets and Indicators for a Growing Industry

14:50 Antonin Cohen
Meet Harmony  
CBD E-Liquids for Cannabis and Tobacco Smokers

15:40 COFFEE BREAK

16:00 Hanka Gabrielova
ICCI  
ICCI: Patient Focused Certification (PFC) – Quality Standards of Cannabis Products

16:10 Hanka Gabrielova
ICCI  
ICCI: Patient Focused Certification (PFC) – Quality Standards of Cannabis Products

16:35 Sara Gobbi
ASTM International  
Global Standards Organization ASTM International Unveils New Cannabis Committee

17:00 Christoph Rossner
Bunker Phyto-Pharma-Development UG  
The Bunker-PPD-Research-Project: How We Take a Look into the Hemp Metabolism
Exhibition Overview

Exhibition Information

You are welcome to present your latest products, technologies or developments – book your booth (6sqm) now including a table, pin board and a chair for only 400 EUR (plus 19% VAT).

You are welcome to use your own booth system.

Advertisement Information

Your advertisement is included in the digital edition as well as in the hard copy of the conference leaflet and journal. Maximize your visibility – the digital edition of the leaflet is being sent out to more than 40,000 recipients per e-mail blast! The price for one page (DIN A4) is 500 EUR, half a page costs 300 EUR (plus 19% VAT).

Exhibitors

Booth No. 1:
HempToday HempBoutique

Booth No. 2:
nova-Institut GmbH

Booth No. 3 & 4:
Hempro Int. Gmbh & Co. KG

Booth No. 5:
MH medical hemp

Booth No. 6:
Harmony

Booth No. 7:
Møllerup Gods

Booth No. 8:
HempFlax B.V.

Booth No. 9:
ICCI

Booth No. 10:
Taian Jinfelihong Weaving Co., Ltd.

Booth No. 11:
GH Investments

Booth No. 12:
HANF FARM GmbH

Booth No. 13:
MOVYCHEM, s.r.o.

Booths No. 15, 17 and 19:
Matchmaking Meeting Point

Booth No. 16:
Hemp-industries Slovakia

Booth No. 18:
Hemp Production Services/Hemp Genetics International (HPS/HGI)

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Fee
500 € plus 19% VAT for two days incl. dinner buffet
Members of EIHA: 100 € reduction of membership fee in 2018

Registration
www.eiha-conference.org

Organiser
nova-Institut GmbH
Chemiepark Knapsack
Industriestraße 300
50354 Hürth, Germany
www.nova-institute.eu
Market Study on Cannabidiol (CBD)

The “Market Study on Cannabidiol (CBD)” is based on the same survey as the hemp food study, the majority of the participants were SME from Germany, USA and Canada. Currently, CBD is a market niche ruled by SME. Due to the fact that CBD is still a new product on the market, it is not surprising that 87.5% identify the potential for growth as CBD’s biggest strength in Europe and North America.

Increased public and governmental awareness is crucial to expand the market and frame proper legislation, or the market risks being damaged at an early stage. Therefore, the way CBD is legally framed may affect its market size. According to the report, CBD has an upper market potential in Europe of 2 billion if used as medicine for chronic diseases, putting on a level with over-the-counter medicine such as valerian.

CBD has a minimum market penetration potential of 24 million. The gap between upper and lower market potentials can be reduced with more consumer information and investment in research to support initial medical claims, as seems to be the current trend. In the study, the market potential per disease was evaluated, such as epilepsy, anxiety disorders, ADHD, schizophrenia, inflammation-associated pain, dystonia and more.

Market Study on Hemp Food

The “Market Study on Hemp Food” is based on a survey from August to October 2015 with 171 producers and traders of hemp food from 21 countries mainly spread across Europe and North America. The potential for growth and hemp’s health benefits were equally mentioned as the biggest strengths of the European and North American hemp food markets.

The main market sections for hemp foods are the so-called “super food”, “nutritious food” and “bio food”. All these markets are analysed and discussed – including comparisons with other nuts in the European Union and the USA.

A double digit growth rate is expected with demand rising especially in food goods. A hemp seed market potential linked to a penetration of 5% of the European nut market would signify an added market value of 1 billion/year. Two major problems are delaying the growth: government legislation and lack of consumer awareness.

The “Market Study on Hemp Food” (200 EUR) and the “Market Study on Cannabidiol (CBD)” (500 EUR) are available at www.bio-based.eu/reports
HempConsult

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[Images of hemp products]

Excellence in hemp seed processing

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Fundación CANNA is a non-profit initiative of the CANNA company. Besides educational services, the foundation also offers the following analytical services:

- Cannabinoids: by HPLC (CBDA, CBGA, CBG, CBD, CBN, THCA and THC).
- Terpenes: by GC-FID (22 monoterpenes plus sesquiterpenes).
- Pesticide screening: by GC-MS/MS and LC-MS/MS (over 300 pesticides).
- Heavy metal screening: by ICP-MS and AA (arsenic, cadmium, mercury and lead).
- Microbiological screening: (aerobic plate count, yeast and mould count, total enterobacteriaceae and coliforms).

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The world’s most comprehensive biocomposite conference and exhibition will take place in the center of Cologne. On the first day of the conference you will be able to vote for the “Biocomposite of the Year 2017” and stay in touch with the latest innovations in the field of composites. Excellent networking opportunities are offered, as more than 250 participants and 30 exhibitors mainly from industries are expected!

**Market opportunities through intersectoral innovation in biocomposites**

The main topics of the conference are biocomposites in the automotive industry, in 3D printing and in other high-tech applications.
# nova-Institute’s Market Studies

## Bio-based Polymers & Building Blocks

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<td>Standards and labels for bio-based products</td>
<td>published 2017-05 / 30 pages / 395 €</td>
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<td>Consumption of biodegradable and compostable plastic products in Europe</td>
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<td>Policies impacting bio-based plastics market development</td>
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## Biocomposites

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<td>Wood-Plastic Composites (WPC) and Natural Fibre Composites (NFC): European and Global Markets 2012 and Future Trends in Automotive and Construction</td>
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## Industrial Hemp & Derivates

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