

why ChitosanS now?

MARKET asks for eco-products:

ChitosanS are consumer-safe, environment-friendly, non-toxic, non-allergenic, biodegradable, biocompatible.

INDUSTRY asks for biopolymers:

ChitosanS are versatile and bioactive 'basic substances' with superior material and functional properties.

SOCIETY asks for sustainability:

ChitosanS are derived from the abundant renewable resource chitin available from different waste materials.

SCIENCE asks for challenges:

ChitosanS are naturally polydisperse materials with complex functionalities and unknown modes of action.

FROM FIRST TO THIRD GENERATION ChitosanS

ChitosanS are a family of biomolecules with remarkable properties and functionalities.

FIRST GENERATION ChitosanS were rather poorly defined mixtures of polymers of varying purity and varying composition – mostly unfit for the development of successfully marketable products; these chitosans were dominating the market for decades and are still widespread today.

SECOND GENERATION ChitosanS are well defined in terms of their degrees of polymerization and acetylation – more suitable for the development of reliable products due to known molecular structure-function relationships; these chitosans are now increasingly appearing on the market.

THIRD GENERATION ChitosanS will be even less polydisperse, or even monodisperse in the case of oligomers, with non-random patterns of acetylation, defined biological activities, and known cellular modes of action; these chitosans will create new market opportunities in future.

important deadlines

Abstract Submission: April 10th, 2015
Travel Award Applications: June 12th, 2015
Early Registration: May 31st, 2015
Regular Registration: June 30th, 2015
Late Registration: July 31st, 2015
Proceedings Submission: September 30th, 2015

registration fees

EUCHIS / ICCC	early	regular	late	onsite
normal *	450 €	500 €	550 €	600 €
student *	250 €	300 €	350 €	400 €

Technical Workshop

normal	100 €	120 €	140 €	200 €
student	50 €	60 €	70 €	100 €

* members of EUCHIS etc.: 50 € reduction applies

more information and contact

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www.chitin2015.eu

organizers

Conference Chairs

Bruno M. Moerschbacher
Martin G. Peter

European Chitin Society

president: Angeles Heras
vice presidents: Malgorzata Jaworska
Manuela Pintado
secretary: Jacques Desbrieres

Local Organizing Committee

Bruno M. Moerschbacher
Francisco M. Goycoolea
Nour Eddine El Gueddari
Ursula Windmüller
Katja Richter
Anne Vortkamp
Cordula Kurth



12th International Conference
of the European Chitin Society

13th International Conference
on Chitin and Chitosan

MÜNSTER
Germany

August 30th - September 2nd
2015

on behalf of the European Chitin Society

EUCHIS

we cordially invite

everyone interested
in the Science and Business of
Chitin and ChitosanS

to join the

12th EUCHIS

ICCC 13th

from August 30th - September 2nd 2015

in Münster, Germany

ChitosanS are entering a new era!

Chitosan has been a 'promising' biomaterial for fifty years due to the superior material properties and the diverse biological activities reported, but chitosan-based products were slow to enter the market due to poor reproducibility in production processes and product performances. This picture is changing now as we understand chitosan to be a family of biomolecules differing in structures and functions, and as research of the past decades has elucidated detailed molecular structure-function relationships of these many chitosans.



ChitosanS have strong resistance inducing and growth promoting activities in many crop plants. (Dr. Nannen, Dr. Moerschbacher)

Chitosan-based products are increasingly appearing on the markets, and these are not only products based on the material properties of the chitosans, but also on their biological functionalities. Recently, demand for chitosans is exceeding for the first time the supply of high quality material available. And chitosan has been classified as a "basic substance" by the European Commission in 2014, offering great opportunities for a bright future, in particular for chitosans in agriculture. Still, the cellular modes of action of chitosans are far from being fully understood so that plenty of scientific challenges also remain, in particular to understand the many biomedical activities of chitosans, and to then exploit them in a broad range of new pharmaceutical applications.

In this exciting situation, we are inviting you to join us in Münster, to learn about the latest developments in understanding structure-function relationships and modes of action of chitosans and their derivatives, about new ways to biotechnologically produce, modify, and analyse chitosans, about reliable assays on physico-chemical properties and biological functionalities of chitosans, about new and upcoming chitosan-based products and markets, about... Come to meet and interact with academic and industrial scientists, with producers and users of chitosans, with registration and marketing experts interested and responsible for chitosan-based products, with...

12th EUCHIS / ICC 13th will particularly focus on being a platform for young scientists to share their results and ideas, and on bridging the gap between academic research and industrial product or process development.

The conference will be preceded by a Young Researchers Symposium reserved for doctoral and early post-doctoral researchers, and followed by a Technical Workshop on analytical tools for structural and functional analyses of chitin and chitosans. We will reserve plenty of time for interactive poster sessions, organize an Exhibition of ongoing large chitosan-related projects, chitosan-based products, and chitosan-relevant technologies, and offer match-making opportunities to meet with other participants of your choice, in particular to facilitate discussions between young and experienced researchers, as well as between scientists from academia and industry.



ChitosanS can keep wounds clean and can promote scar-free wound healing even in case of severe burns. (Dr. Gillet)

