



EUCHIS'11

10th International Conference of the European Chitin Society

St.Petersburg, May 20-24, 2011

PROGRAM

Friday, May 20

12.00- 18.00 REGISTRATION

18.00 WELCOME PARTY



EUCHIS'11

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Saturday, May 21

PODIUM PRESENTATIONS

9.00 – 9.15

Opening Ceremony

Plenary Lecture 1

Auditorium A

9.15 – 10.00

PL-1

Chair: V. VARLAMOV

A. HERAS - Chitin and chitosan: looking back, around and forward

Parallel Sessions

Auditorium A

Session 1: A. Production of Chitin, Chitosan, and its derivatives

Chairperson: **S. BRATSKAYA**

10.00 – 10.30

A1-1. A. HEPPE - Industrial Chitosan production – requirements on production process, equipment and quality control (keynote speaker)

10.30 – 11.00

A1-2. J. DESBRIERES - Conducting materials based on chitosan hydrogels. from 2D to 3D materials (keynote speaker)

11.00 – 11.15

S.N. MIKHAILOV - Is it possible to develop a better crosslinking reagent for chitosan than glutaraldehyde?

Auditorium B

Session 2: B. Chitin&Chitosan: characterization and analysis

Chairperson: **B.M. MOERSCHBACHER**

10.00 – 10.30

B1-1. M.G. PETER - Chito-oligosaccharides: past, present, and future (invited speaker)

10.30 – 10.50

B1-2. T.T. FRANCO - Sequence analysis by hplc chito-oligosaccharides obtained from enzymatic hydrolysis of chitosan (invited speaker)

10.50 - 11.05

B1-3. T. KAWADA - Synthetic strategy of chito-hetero-oligosaccharides

11.05 – 11.20

B1-4. I. BLAGODATSKIKH - Self-assembly in dilute solutions of short chain chitosans of low degree of acetylation

11.20 – 11.45 Coffee Break

Session 3: A. Production of Chitin, Chitosan, and its derivatives

Chairperson: **M. YAVORSKA**

11.45 – 12.00

A3-1. A. BAKULIN - Construction of chitosan-melanin complexes and investigation of their properties

12.00 – 12.30

A3-2. M.L. TSAI - Effect of preparation conditions on physiochemical properties and phytic acid adsorption of chitosan/ tripolyphosphate/ genipin co-crosslinked beads

12.30 – 12.45

A3-3. M.ZUBER - Synthesis and thermo-mechanical characterization of chitin based polyurethane elastomers

12.45 – 13.00

A3-4. M. MUCHA - Chitosan scaffolds with active nanofillers prepared by electrolytic method

Session 4: C. Nanochitosan – current status and future prospects

Chairperson: **S. SENEL**

11.45 – 12.15

C4-1. F.M. GOYCOOLEA - "Smart" chitosan-based nanoparticles for application in programmed drug delivery and control of pathogenic bacteria (keynote speaker)

12.15 - 12.30

C4-2. V. ALEXANDROVA - Various approaches to metal nanoparticles stabilization in carboxymethyl chitin matrix

12.30 – 12.45

C4-3. S.SH. RASHIDOVA - Nanomaterials based on chitosan *Bombyx mori*

12.45 – 13.00

C4-4. G. TISHCHENKO - Single polymer composites. Chitin-nanofibrils-reinforced chitosan films

Lunch Break



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14.00 – 15.00 PO-1. POSTER SESSION

PODIUM PRESENTATIONS

Parallel Sessions

Auditorium A	Auditorium B
Session 5: A. Production of Chitin, Chitosan, and its derivatives Chairperson: V. TIKHONOV	Session 6: C. Nanochitosan – current status and future prospects Chairperson: T. FRANCO
15.00-15.15 A5-1. Z. DRACZYŃSKI - Fibers made of butyrate-acetate chitin copolyesters as potential materials for medical applications	15.00-15.15 C6-1. R.Y. MILUSHEVA - Hepatoprotective, Anticoagulant and Immuno-Stimulating Properties of Chitosan Bombyx Mori Derivatives
15.15-15.30 A5-2. V.YU. NOVIKOV - The study of mechanism of chitin and chitosan hydrolysis	15.15-15.30 C6-2. S. MINAMI - Biological and cosmetic effects of chitin nanofiber
15.30-15.45 A5-3. P. RATANAJAJAROEN - Preparation of chitin porous structure combining solvent exchange induced phase separation and freeze-drying process	15.30-15.45 C6-3. O. OZER - The properties of chitosan gels containing diflucortolone valerate loaded nanoparticles
15.45-16.00 A5-4. F. SIMON - Chitosan as reactive polymer to produce super-hydrophobic surfaces	15.45-16.00 C6-4. E.V. SVIRSHCHEVSKAYA - Structure and functions of nanogels based on differently charged chitosan derivatives
16.00-16.15 A5-5. S. SCHWARZ - Interaction between cationic polysaccharides with clay dispersions	16.00-16.15 C6-5. B. B. AAM - Controlled production of chitosan fragments and applications in agriculture and medicine
16.15 – 16.45	Coffee Break
Session 7: A. Production of Chitin, Chitosan, and its derivatives Chairperson: S. MIKHAILOV	Session 8: C. Nanochitosan – current status and future prospects Chairperson: F. GOYCOOLEA
16.45-17.00 A7-1. A.Y. OZER - Studies on gamma irradiation effects on chitosan microparticles	16.45-17.00 C81. K.M. ZIA - Synthesis, characterization and biocompatibility evaluation of chitin based polyurethane bio-nanocomposites
17.00 -17.15 A7-2. M. BENAVENTE -Production of glucosamine hydrochloride from crustacean shell	17.00 -17.15 C8-2. J. VENKATESAN - Enhancement of osteoblast cell growth by carbon nanotube and amylopectin addition in chitosan/natural hydroxyapatite scaffold for bone tissue engineering
17.15-17.30 A7-3. H. SAIMOTO - Synthesis of organosoluble chitosan derivatives with polyphenolic side chains	17.15-17.30 C8-3. D.V. KUREK - Chitinous biomaterials from marine sponges: overview and possible applications
17.30-17.45 A7-4. S. VÍLCHEZ –Surface modification of polyamide fabrics with chitosan hydrogels crosslinking with genipin	17.30-17.45 C8-4. A.M. BOCHEK - Nanocomposite materials based on chitosan with modified montmorillonite



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Sunday, May 22

9.00 – 10.00	European Chitin Society General Assembly
10.00	Conference Photo Meeting
Plenary Lecture 2	Auditorium A

10.00- 10.45	PL-2	Chair: M. PETER K. RICHTER – Standardisation of chitosan – first results of the interlab study
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10.45 – 11.15 Coffee Break

PODIUM PRESENTATIONS

Sessions 9: D. Biomedical, Pharmaceutical, Agricultural and other applications

Auditorium A

Chairperson: S.RASHIDOVA

11.15- 11.35	D9-1. S. BRATSKAYA -Chitosan and its derivatives as sorbents and flocculants (invited speaker)
11.35 – 11.50	D9-2. R.H. CHEN - Factors affect hydrodynamic Volume of chitosan in acidic aqueous solutions and their Applications (invited speaker)
11.50 – 12.05	D9-3. S.B. HIZMETLI – Development of chitosan scaffolds for periodontal tissue engineering
12.05 – 12.20	D9-4. S. KULIKOV - Antibacterial activity of oligochitosan against methicillin-resistant <i>Staphylococcus aureus</i> (MRSA): molecular weight and pH effects

12.20 – 13.30 Lunch Break

13.30 -22.00	Excursion to Peterhof & Banguet
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Monday, May 23

PODIUM PRESENTATIONS

Plenary Lecture 3

9.15- 10.00 PL-2

Chair: I. TIKHONOVICH

B.M. MOERSCHBACHER - Enzymatic / mass spectrometric fingerprinting of partially acetylated chitosans

Auditorium A

Parallel Sessions

Auditorium A

Session 10: D. Biomedical, Pharmaceutical, Agricultural and other applications

Chairperson: **A. HERAS**

- 10.00 – 10.15 **D10-1. A. CIVANTOS** - Chitosan films properties: cell biocompatibility
- 10.15 – 10.30 **D10-2. Z.G. ÖNER** – Development of triamcinalone containing chitosan gel formulations for the treatment of oral mucosal lesions
- 10.30- 10.45 **D10-3. E.T. KATO JR** - Characterization of a new hydrogen sulfide indicator
- 10.45 -11.00 **D10-4. R. RUJIRAVANIT** - Bilayer alginate/chitosan-spotted film formation by phase separation process of chitosan–citrate emulsion from alginate/chitosan suspension

Auditorium B

Session 11: E. Chitin&Chitosan: Biotechnological and Enzymatic aspects

Chairperson: **C. CAMELLA**

- 10.00 – 10.30 **E11-1. I. TIKHONOVICH** - Molecular approaches for synthesis of chitin oligosaccharides and their N-deacetylated derivatives, which are required in medicine, biotechnology and agriculture (keynote speaker)
- 10.30-10.45 **E11-2. CH.L. LIU** - Cloning of ASCHI61, a chitinase from *Aeromonas schubertii*
- 10.45 -11.00 **E11-3. M.G.LÓPEZ** - Isolation of chitin and other value-added products from discarded decapod crustaceans using an enzymatic hydrolysis-based procedure

11.00 – 11.30 Coffee Break

Session 12: D. Biomedical, Pharmaceutical, Agricultural and other applications

Chairperson: **V.E.KRASAVTSEV**

- 11.30 – 11.45 **D12-1. E. TURANO** - Role of Chitin in Alzheimer: a new cytotoxic pathway in an old disease
- 11.45 – 12.00 **D12-2. I.A. VESELOVA** - Self-assembling chitosan/peroxidase films in the optical biosensors for the determination of low water-soluble analytes in water-insoluble samples
- 12.00 – 12.15 **D12-3. I.N. KALASHNIKOV** - Mutual influence of chitosan and polymethylacrylate on the physical-chemical properties of biodegradable compositions
- 12.15 – 12.30 **D12-4. S. IFUKU** - Optically transparent composites reinforced with chitin nanofibers

Session 13: E. Chitin&Chitosan: Biotechnological and Enzymatic aspects

Chairperson: **K.RICHTER**

- 11.30 – 11.50 **E13-1. M.M. JAWORSKA** - Enzymatic deacetylation of chitin and chitosan (invited speaker)
- 11.50 - 12.05 **E13-2. CH.R. SHEN** - The correlation study of allergic mediators and acidic mammalian chitinase
- 12.05-12.20 **E13-3.M. MATSUMIYA**- Properties and cDNA cloning of the stomach chitinase from common mackerel *Scomber japonicus*
- 12.20 – 12.35 **E13-4. S.P. CAMPANA-FILHO** - Nanoparticles and Films from Ultrasound-processed Chitin, Chitosan and Cellulose

12.35 – 14.00 Lunch Break



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Monday, May 23

13.30 – 14.30

BOARD MEETING

Assembly Hall

14.00 – 15.00

PO-2. POSTER SESSION

PODIUM PRESENTATIONS

Auditorium A

Session 14: ??

Chairperson: **H. POSPIEZNY**

- 15.00-15.30 **14-1. C. CAMELLA** - Chitosan-based nanosystems for the delivery of poorly soluble drug (keynote speaker)
- 15.30-15.45 **14-2. Y. POLITI** - Pider cuticle: Chitin fiber architectures in relation to function
- 15.45-16.00 **14-3. V.F. URYASH** - Mutual influence of chitosan and polymethylacrylate on the physical-chemical properties of biodegradable compositions

16.00

CLOSING DISCUSSION

16.30

CLOSING CEREMONY



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Tuesday, May 24

DEPARTURE