

ESPSC 2011

European Symposium on

POLYMERS in SUSTAINABLE CONSTRUCTION

Czarnecki Symposium

September 6-7th, 2011
Warsaw POLAND

Organized by:



Under Auspices of:

Rector Magnificus
of Warsaw University of Technology,
Professor Włodzimierz Kurnik



International Congress
on Polymers in Concrete



and

The Section for Building Materials Engineering and Building Physics
of the Committee on Civil Engineering and Hydroengineering of the Polish Academy of Sciences

PROGRAM

September 5th, 2011 (at ITB, Conference Room)

16:00 – 19:00	Registration
16:00 – 19:00	Welcome Drink



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Day 1: September 6th, 2011 (at WUT, Senate Hall)

9:00 – 11:00	Registration
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Opening Session		
<i>Chairperson: A.Beeldens, A.Garbacz, M.Kaproń</i>		
11:00 – 11:05	A.Garbacz	Welcome Words from Organizers
11:05 – 11:10	Rector Magnificus W.Kurnik	Speech of JM Rector of Warsaw University of Technology
11:10 – 11:15	W.Radomski	Speech of the President of the Committee on Civil Engineering and Hydroengineering of Polish Academy of Sciences
11:15 – 11:20	M.Kaproń	Speech of the Director of Building Research Institute (ITB)
11:20 – 11:25	H.Zobel	Speech of the Dean of Faculty of Civil Engineering
11:25 – 11:40	A.Garbacz	Professor Lech Czarnecki - Outline of Activity
11:40 – 11:55	D.Van Gemert	Contribution of Concrete-Polymer Composites to Sustainable Construction and Conservation Procedures
11:55 – 12:10	Y.Ohama, A.Shirai, K.Imamoto	Fire-Protecting Performance of Polymer Modified Mortars Using Redispersible Polymer Powders
12:10 – 12:25	L.Czarnecki K.J.Kurzydłowski	Current Trends in Development of Building Nano-Materials
12:25 – 12:40	L.Czarnecki	Concrete-Polymer Composite C-PC - Reading with Understanding
12:40 – 15:00 Toast + Lunch		
Czarnecki Session		
<i>Chairpersons: J.Deja, J.Fangrat, D.Van Gemert</i>		
15:00 – 15:15	D.Fowler	Forensic Engineering Applied to Failures in Concrete Polymer Materials
15:15 – 15:30	A.Beeldens	Modification of Concrete Pavements for Sustainable Applications
15:30 – 15:45	I.Ruttmar	Sustainable Road Construction - Pavement With Exposed Aggregate Concrete
15:45 – 16:00	M.Kawakami, F.Omata H.Sakakibara, N.Yamasaki	Resilience and Trends of Concrete-Polymer Composites in Japan
16:00 – 16:15	J.Śliwiński T.Zdeb	Reactive Powder Concrete as a Polymer Modified Concrete
16:15 – 16:30	K.-S. Yeon, S.-W. So, J-Y.Cha	Rehabilitation Method of Deteriorated Aqueduct Using Polymer Composites
16:30 – 16:45	P.Seidler	A Disaster With Many Questions Without Reliable Answers - Expectations to Improve Technical Expertise
16:45 – 17:00	M.Puterman	Professor Lech Czarnecki – a Great Scientist and a Dear Friend
19:30 Gala Dinner		

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Day 2: September 7th, 2011 (at ITB, Conference Room)

9:00 – 10:30		Session III: Sustainable Construction <i>Chairpersons: J.Orlowsky, J.Tworek, K.-S.Yeon</i>
1	D.Oetiker	Polycarboxylate Ether Polymers and Their Influence on Sustainability in Concrete Production
2	A.Toyoda, M.Kawakami, T.Shimizu, S.Sato	The Great East Japan Earthquake Disaster and Sustainable Infrastructures
3	M.Stehlík	Application of New Solvent-Free Epoxy Dispersion in Building Practice
4	S.Wall	Strategy for Sustainable Construction in Poland – Challenges and Chances
5	M.Piasecki	Product Sustainability - Implementation to ITB's Services
6	A.Kozak	Influence of Weathering Factors on Durability of Polymeric Coatings Used for Concrete Protection
P1	W.Jackiewicz-Rek	Cementitious Materials and Sustainable Concrete
P2	T.Możaryn, J.Kokowska, A.Lamenta	Systems for the Protection and Repair of Concrete Channels and Reservoirs in Wastewater Treatment Plants and Water Treatment Plants - Research and Evaluation
P3	T.Piotrowski	Use of Polymers on Concrete for Nuclear Power Plant Construction and Repair
P4	P.Woyciechowski	Concrete Carbonation as Limited Process and Its Relevance to CO ₂ Sequestration
10:30 – 11:00		Coffee Break
11:00 – 12:15		Session IV: Repair and Anticorrosion Protection <i>Chairpersons: J.Proszek-Gorninski, J, Šušteršič, M.Puterman</i>
1	L.Courard, F.Michel, A.Garbac, T.Piotrowski	Surfology Based Concrete Repair Engineering
2	J.Orlowsky, M.Raupach	Characterization of Polymers Using Mobile NMR
3	A.Van der Wielen, L.Courard, F.Nguyen	Detection of Defects in Concrete With Ground Penetrating Radar
4	M.Jaśniok	Examining and Modelling the Influence of Lengths of Rebars in Concrete to Shapes of Impedance Spectra
5	A.Śliwka, A.Zybura	Diffusion of Organic Substances Inhibiting Reinforcement Corrosion in Concrete
P5	L.Czarnecki, P.Łukowski	Polymers in Concrete Repair According to EN 1504
P6	A.Garbac, W.Głodkowska	Compatibility as an Important Factor Affecting Repair Durability
P7	J.Kuziak, A.Królikowski, K.Gbur, S.Kuś	New Methods for Increasing Effectiveness of Penetrating Corrosion Inhibitors for Steel in Concrete
P – poster presentation		

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12:15 – 13:45		Lunch
13:45 – 15:30		Session V: New Material Solutions <i>Chairpersons: L.Courard, M.Kawakami, L.Rafalski</i>
1	K.Guerra Tonet, J.Proszek-Gorninski	Alumina Addition Influence on the Polymer Composites Properties
2	Ł.Kotwica, J.Małolepszy	Polymer -Cement and Polymer - Alite Interactions in Hardening Cement -Polymer Composites
3	Z.Giergiczny, G.Bolte, K.Szerszeń, M.Sokołowski	Application of the Nanocement Tiocem® in Building Construction
4	T.Büttner, M.Raupach	Polymer Impregnation of Textile Reinforced Concrete to Enhance Durability - Laboratory Testing and Long-Term Modelling
5	K.Sikora, A.J.Klemm	Freeze/Thaw Performance of Polymer Modified Cementitious Mortars Exposed to NaCl Solution
6	S. Cunha, V.Alves, J.B.Aguiar,V.M.Ferreira	Use of Phase Change Materials Microcapsules in Aerial Lime and Gypsum Mortars
7	Z.Hlavac, M.Stehlík	Epoxy Dispersions Added to Concrete or Used to Modify Its Surface
<i>P8</i>	<i>E.Horszczaruk</i>	<i>Durability of Hydraulic Cement Concrete With Addition Polypropylene Fibers</i>
<i>P9</i>	<i>M.Kaszyńska</i>	<i>Influence of Aggregate Composition on Self-Compacting Concrete Properties</i>
<i>P10</i>	<i>P.Łukowski, G.Adamczewski</i>	<i>Evaluation of the Properties of Self-Repairing Epoxy-Cement Composite</i>
<i>P11</i>	<i>J.Sokołowska, M.Bratak P.Wieciński</i>	<i>Hardness as a Measure of Quality Of Concrete-Like Polymer Composites Containing Calcium Fly Ash</i>
P – Poster Presentation		
15:30 – 16:00		Closing Session <i>Chairpersons: L.Czarnecki, D.Fowler, Y.Ohama</i>

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