

International Workshop on Geopolymers and Geopolymer Concrete GGC 2005

Wednesday 28 Sep 2005	
8:30	Registration at the Bank West Lecture Theatre, Curtin University of Technology
9:00	Welcome and Opening of Workshop: Professor Peter Lee, Executive Dean, Division of Engineering, Science and Computing, Curtin University of Technology, Perth, Australia
9:20	Welcome and Introduction: Professor Houssam Toutanji, University of Alabama in Huntsville, and Professor Vijay Rangan, Curtin University of Technology
<u>Session One</u> - Moderator: H. Toutanji	
9:30 -10:00	Joseph Davidovits: Emeritus Professor, Geopolymer Institute, F-02100 Saint-Quentin, France
	Green-chemistry and sustainable development granted and false ideas about geopolymer concrete.
10:00 - 10:30	Waltraud M. Kriven: Professor, Dept. Mat. Sci. and Eng., University of Illinois, Urbana-Champaign, IL USA
	Geopolymer as ceramics and ceramic mix composites.
10:30 - 10:50	Coffee Break at Curtin on the Park
<u>Session Two</u> - Moderator: P. Chang	
10:50-11:10	K. Ikeda, D. Feng, Y. Hirano, T. Terai, R. Vallepu, & A. Mikuni; Japan
	Preparation of geopolymeric material from red mud mixed with fly ash.
11:10-11:30	Arie van Riessen and Subaer; Perth, Australia
	Thermal and microstructural properties of geopolymers.
11:30-11:50	Salvatore Iannace, Marino Lavorgna, Letizia Verdolotti, Alessandro Flora, and Stefania Lirer; Naples, Italy
	Geopolymerization process to consolidate incoherent pozzolanic soil.
11:50-12:10	D. Kong, J. G. Sanjayan and K. Sagoe-Crentsil; Clayton, Australia
	Damage due to elevated temperatures in Metakaolinite-based geopolymer pastes.
12:10-12:30	Jakub Masák, Jean Michel Kolly, and Klára Víchová; Praha, Czech Republic
	Geopolymer development: from laboratories to industry.
12:30 - 2:00	Lunch at Curtin on the Park
<u>Session Three</u> - Moderator: C. G. Papakonstantinou	
2:00-2:20	V. Ramakrishnan and A. K. Patnaik; South Dakota, USA
	Research and applications of geopolymer concrete in relation to recent advances in concrete technology.
2:20-2:40	L. Granizo, A. Fernandez-Ibarbun, T. Gonzalez, and R. Rice; Spain
	Application of geopolymeric materials as designed-rheology floorings with improved properties.
2:40-3:00	J.T. Gourley and G.B. Johnson; Rocla, Australia
	Developments in Geopolymer Precast Concrete .
3:00-3:20	E.R Vance, D.S. Perera, Z. Aly, M. Backford, Y. Zhang, K.S. Finnie, M. Rowles, J.V. Hanna, K.J. Pike, J. Davis, and O. Uchida; Australia
	Solid State Chemistry Phenomena in Geopolymers with Si/Al~ 2.
3:30 -3:50	Coffee Break at Curtin on the Park
3:50 - 5:15	Group Session, Discussion and Presentations - Chairs: Waltraud M. Kriven and Peter Chung
6:30 - 9:00	Workshop Dinner at Curtin on the Park

Thursday 29 Sep 2005

Session Four - Moderator: V. Ramakrishnan

9:00-9:20	Darryl D. Siemer; ID, USA
	"Hydroceramics" - a geopolymer designed to pass U. S. radwaste leach tests.
9:20-9:40	M. Gordon , J. Bell , W.M. Kriven , and D. Comrie; IL, USA
	Graphite fiber reinforced geopolymer molds for near net shape casting of molten diferrous silicide.
9:40-10:00	G.C. Lukey and J.S.J. van Deventer; Melbourne, Australia
	The Commercial Development of Inorganic Poymer Concrete (IPC): Current Status and Implications for Key Stakeholders.
10:00-10:20	Y. Bao and M. W. Grutzeck; Pennsylvania, USA
	Hydroceramic waste forms: procedures and properties.

10:20 - 10:40 Coffee Break at Curtin on the Park

Session Five - Moderator: K. Ikeda

10:40-11:00	P. Chang, Nazir, Mohammed, and P. Balaguru ; Maryland, USA
	Inplane strength of geopolymer reinforces masonry structures.
11:00-11:20	C. G. Papakonstantinou and P. N. Balaguru; Massachusetts, USA
	Use of geopolymer matrix for high temperature resistant hybrid laminates and sandwich panels.
11:20-11:40	Pavel Krivenko; Kiev, Ukraine
	Development of alkaline cements supported by theory and practice.
11:40-12:00	B. V. Rangan, D. Hardjito, S. E. Wallah, and D. M. J. Sumajouw; Perth, Australia
	Tests on fly ash-based geopolymer concrete.

12:00 - 1:30 Lunch at Curtin on the Park

1:30 - 2:40 Group Session, Discussion & Wrap-up - Chairs: V. Rangan; C. G. Papakonstantinou, D. D. Siemer, and W. Grutzeck

2:40 - 3:40 Laboratory Demonstration of making and testing of fly ash-based geopolymer concrete

3:40 - 4:00 Coffee Break at Curtin on the Park

4:00 - 4:30 Closing of Workshop by Professor Toutanji and Professor Rangan

5:30 - 7:00 Public Lecture on "Building the Pyramids with Chemistry: the Stunning Technologies of the Ancient Egyptians" by
Professor Joseph Davidovits