



5-7 OCTOBER **ISFR**
2011
TOLEDO (SPAIN)

6th International Symposium
on Feedstock Recycling
of Polymeric Materials

programme

<http://www.isfr2011.escet.urjc.es/>

wednesday 5 october 2011

- 10:00 – 13:15 h **Registration**
- 13:15 – 14:30 h **Lunch**
- 14:30 – 15:00 h **Opening Session**
- 15:00 – 15:45 h **Plenary Session 1: “Trends and perspectives in feedstock recycling of polymeric materials”**
by Dr. J. M. N. van Kasteren
- 15:45 – 16:45 h **Conference session 1: Thermal Decomposition**
- 16:45 – 17:15 h **Coffee break**
- 17:15 – 18:00 h **Plenary session 2: “Feedstock recycling of nitrogen containing polymers by fluidized bed pyrolysis”**
by Dr. W. Kaminsky
- 18:00 – 19:00 h **Conference session 2: Thermal Decomposition**
- 20:00 h **Welcome Reception**

thursday 6 october 2011

- 9:00 – 9:45 h **Plenary session 3: “Catalysts for the conversion of waste plastics: challenges for the development of industrial processes”**
by Dr. T. Bhaskar
- 9:45 – 10:45 h **Conference session 3: Catalytic Processes**
- 10:45 – 11:15 h **Coffee break**
- 11:15 – 12:55 h **Conference session 4: Catalytic Processes and Gasification**
- 13:15 – 14:30 h **Lunch**

- 14:30 – 15:15 h **Plenary session 4: “Overview of the waste plastic recycling system in Japan and future tasks”**
by Dr. T. Kamo
- 15:15 – 16:15 h **Conference session 5: Advanced Mechanical Recycling and Characterization**
- 16:15 – 17:30 h **Poster session**
- 18:00 h **Toledo cultural visit with “tapas” dinner**

friday 7 october 2011

- 9:00 – 9:45 h **Plenary session 5: “Thermal and pyrolytic processes for the valorisation of waste plastics”**
by Dr. P. T. Williams
- 9:45 – 10:45 h **Conference session 6: Thermal Decomposition**
- 10:45 – 11:15 h **Coffee break**
- 11:15 – 13:15 h **Conference session 7: Chemolysis**
- 13:15 – 14:30 h **Lunch**
- 14:30 – 15:15 h **Plenary session 6: “European trends to progress towards capturing the full value of used plastics”**
by Mr J. E. Johansson
- 15:15 – 16:15 h **Conference session 8: Solvent Processes**
- 16:15 – 16:45 h **Coffee break**
- 16:45 – 18:25 h **Conference session 9: Integrated Evaluation of Alternatives**
- 18:30 – 19:00 h **Closing Ceremony**
- 20:00 h **Gala Dinner**

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- 15:00 – 15:45 h **Plenary Session 1: “Trends and perspectives in feedstock recycling of polymeric materials”** by *J.M.N. van Kasteren*
- 15:45 – 16:45 h **Conference session 1: Thermal Decomposition**
- 15:45 – 16:05 h **O-1: Valorization of waste tires by pyrolysis in a conical spouted bed reactor**
G. López, M. Amutio, M. Artetxe, A. Erkiaga, J. Álvarez and M. Olazar
- 16:05 – 16:25 h **O-2: Advances in the recycling of plastic wastes for metallurgical coke production**
M.A. Diez and R. Alvarez
- 16:25 – 16:45 h **O-3: Oil production by fast pyrolysis of cellulose/polyethylene mixtures in metal chloride presence**
A. Solak and P. Rutkowski
- 16:45 – 17:15 h **Coffee break**
- 17:15 – 18:00 h **Plenary session 2: “Feedstock recycling of nitrogen containing polymers by fluidized bed pyrolysis”** by *W. Kaminsky*
- 18:00 – 19:00 h **Conference session 2: Thermal Decomposition**
- 18:00 – 18:20 h **O-4: Pyrolysis of halogen containing polymer mixtures.**
Zs. Czégény, E. Jakab, T. Bhaskar and Y. Sakata
- 18:20 – 18:40 h **O-5: Investigation of pyrolysis of brominated flame retardant plastic**
Z.Z. Hlaing, M. Adachi, J. Ma, H. Nakagome, F. Takeuchi, K. Omote and K. Kimura
- 18:40 – 19:00 h **O-6: Alternative fuels, the infinite energy**
M. Garcia Villan
- 20:00 h **Welcome Reception**

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- 9:00 – 9:45 h **Plenary session 3: “Catalysts for the conversion of waste plastics: challenges for the development of industrial processes”** by *T. Bhaskar*
- 9:45 – 10:45 h **Conference session 3: Catalytic Processes**
- 09:45 – 10:05 h **O-7: Hydroreforming of LDPE thermal cracking waxes over Ni/h-Beta catalysts with different Ni particle size obtained from different precursors**
J. Aguado, D.P. Serrano, J.M. Escola and L. Briones
- 10:05 – 10:25 h **O-8: Catalytic cracking of waxes from polyolefins under FCC operating conditions**
J.M. Arandes, I. Torre, M.J. Azkoiti, M. Olazar, J. Ereña and J. Bilbao
- 10:25 – 10:45 h **O-9: Polystyrene hydrocracking in solution over bifunctional catalysts**
E. Fuentes, A. Salbidegoitia, M.P. Gonzalez-Marcos and J.R. Gonzalez-Velasco
- 10:45 – 11:15 h **Coffee break**



- 11:15 – 12:55 h **Conference session 4: Catalytic Processes and Gasification**
- 11:15 – 11:35 h **O-10: Catalytic decomposition of nitrogen containing polymers mixed with zeolite catalysts**
J. Bozi and M. Blazso
- 11:35 – 11:55 h **O-11: Production of hydrogen and carbon materials from propylene by combined catalysts**
Z. W. Jiang, J. Gong, H.O. Yu and T. Tang
- 11:55 – 12:15 h **O-12: Air gasification of mixed plastic wastes using a two stage gasifier for the production of a producer gas with low tar and high calorific value**
J.S. Kim, J.W. Kim and T. Y. Mun
- 12:15 – 12:35 h **O-13: Gasification: an innovative approach for the thermal treatment of plastic residues**
V. Wilk and H. Hofbauer
- 12:35 – 12:55 h **O-14: Preliminary assessment of plastic waste valorisation via sequential pyrolysis and catalytic reforming**
J. Dufour, D.P. Serrano and D. Iribarren
- 13:15 – 14:30 h **Lunch**
- 14:30 – 15:15 h **Plenary session 4: "Overview of the waste plastic recycling system in Japan and future tasks" by T. Kamo**
- 15:15 – 16:15 h **Conference session 5: Advanced Mechanical Recycling and Characterization**
- 15:15 – 15:35 h **O-15: High performance recycling system for shredded plastics by using Raman identification**
H. Kawazumi, A. Tsuchida, K. Arikata, Y. Tsuchida, H. Hasuo and T. Oosaki
- 15:35 – 15:55 h **O-16: Development of mechanical recycling technology of waste polyolefin composites based on high speed centrifugal beating technology**
T. Yamawaki and Y. Ozaki
- 15:55 – 16:15 h **O-17: Analytical fractionation techniques application in the polyethylene photodegradation process**
M.T. Exposito, C. Dominguez, J. Codina and R.A. Garcia
- 16:15 – 17:30 h **Poster session**
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- 9:00 – 9:45 h **Plenary session 5: "Thermal and pyrolytic processes for the valorisation of waste plastics" by P.T. Williams**
- 9:45 – 10:45 h **Conference session 6: Thermal Decomposition**
- 09:45 – 10:05 h **O-18: Pyrolysis reaction of polyurethane foam and effect of metallic compound for thermal decomposition product**
T. Suzuki, H. Yanase, O. Terakado and M. Hirasawa
- 10:05 – 10:25 h **O-19: Auto shredder residue separation and pyrolysis**
A. Santini, L. Morselli, F. Passarini, I. Vassura, D. Serrano and J. Dufour
- 10:25 – 10:45 h **O-20: Evaluation and use of the fractions from cracking of waste plastics on production unit**
J. Mikulec, L. Švantner and I. Vailing
- 10:45 – 11:15 h **Coffee break**



- 11:15 – 13:15 h **Conference session 7: Chemolysis**
- 11:15 – 11:35 h **O-21: An upgraded chemical recycling of polyamides**
A. Kamimura, K. Kaiso, S. Suzuki, Y. Oishi, Y. Ohara, T. Sugimoto, K. Kashiwagi and M. Yoshimoto
- 11:35 – 11:55 h **O-22: Chemical depolymerisation of PET complex wastes: hydrolysis vs. glycolysis**
M. Arieta-Araunabeña, S. Arnaiz, A. Asueta, I. Robertson, L. Martinez and A. Aguado
- 11:55 – 12:15 h **O-23: Carbonate catalyzed nucleophilic substitution of poly(vinyl chloride)**
G. Grause, T. Hosoya, T. Kameda and T. Yoshioka
- 12:15 – 12:35 h **O-24: Chemical recycling of electronic devices composed of thermosetting resin and inorganic compounds**
H. Ebina and H. Tagaya
- 12:35 – 12:55 h **O-25: Chemical reaction of phenol resin foam powder and prepolymer in high temperature fluids**
T. Sugeno and H. Tagaya
- 12:55 – 13:15 h **O-26: Kinetic study of the glycolysis of flexible polyurethane wastes using stannous octoate as catalyst**
D. Simón, M.T. García, A. de Lucas, R. Mazarro and J.F. Rodriguez
- 13:15 – 14:30 h **Lunch**
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- 15:15 – 16:15 h **Conference session 8: Solvent Processes**
- 15:15 – 15:35 h **O-27: Dehydrochlorination of polyvinylchloride in green solvent**
Q. Zhou, X.L. He and Y.Z. Wang
- 15:35 – 15:55 h **O-28: Recovery of useful resources from WEEE by using recyclable solvent**
T. Kamo, H. Ito, Z. Zou, M. Adachi, T. Imai, H. Matsui and H. Nakagome
- 15:55 – 16:15 h **O-29: Production of clean and high calory powder fuel from mixture of waste plastics and waste biomass using subcritical water**
T. Sako, I. Okajima, Y. Fujimori, T. Shimizu and I. Kimura
- 16:15 – 16:45 h **Coffee break**
- 16:45 – 18:25 h **Conference session 9: Integrated Evaluation of Alternatives**
- 16:45 – 17:05 h **O-30: Study of OLED end of life treatments**
L. Barrutebeña, M. Arieta-Araunabeña and C. Delgado
- 17:05 – 17:25 h **O-31: Feedstock recycling of waste polymers by thermal cracking in molten metal – thermodynamic analysis of the process**
M. Stelmachowski
- 17:25 – 17:45 h **O-32: Environmental evaluation of glycolysis and hydrolysis of PET waste using Life Cycle Assessment**
M. Calero, J.L. Martí, B. Ferreira, M. Arieta, L. Martinez and A. Aguado
- 17:45 – 18:05 h **O-33: Life style assessment (LSA) of plastic engineering prior to LCA**
A. Oku
- 18:05 – 18:25 h **O-34: Vinyl Plus, the new European PVC industry’s voluntary programme towards sustainability**
A. Sevenster
- 18:30 – 19:00 h **Closing Ceremony**
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