

제목: Super Green 2002

2002년 11월 3일부터 수원에 있는 경희대학교에서 에너지와 환경 응용에 관한 초임계유체기술 국제 심포지엄이 열린다. 본 국제학술대회에서는 Bernd W. Wenclawiak(Germany), Anthony Clifford(UK), Chein Wai(U.S.A), Youichi Enokida(Japan), Han Buxing(China), Andrew Shadrin(Russia), Motonobu Goto(Japan), Jerry King(U.S.A)과 같은 초임계유체기술의 저명한 연구자들의 초청강연과 함께 40편의 구두발표 그리고 37편의 포스터 발표가 있을 예정이다. 본 국제학술대회에는 10개국에서 초임계유체를 연구하는 과학자들이 대거 참석할 예정이며 행사 프로그램은 아래와 같다.

문의처

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Super Green 2002 1st International Symposium on Supercritical Fluid Technology for Energy and Environment Applications

November 3~6, 2002 Kyung Hee University Suwon, Korea

SUNDAY, NOVEMBER 3, 2002

20:00 REGISTRATION AND WELCOME MEETING (Castel Tourtel)

MONDAY, NOVEMBER 4, 2002

08:00 REGISTRATION

08:30 INVITED LECTURE 01 : "Supercritical Fluid Extraction of Pesticides and other Pollutants from different Matrices" - Bernd W. Wencclawiak(Germany)

09:20 INVITED LECTURE 02 : "Process in Subcritical Water" - Anthony Clifford(UK)

10:10 COFFEE BREAK

10:30 INVITED LECTURE 03 : "Microemulsions, Nanoparticles, and Catalysis in Supercritical Carbon Dioxide" - Chein Wai(U.S.A)

11:20 INVITED LECTURE 04 : "Application of Supercritical Fluid Extraction to Nuclear Fuel Reprocessing In Japan" - Youichi Enokida(Japan)

12:10 LUNCH

12:40 SHORT COURSE

13:40 J-1 : "TREATMENT OF EUCALYPT HEARTWOOD WITH PERMETHRIN USING SUPERCRITICAL CARBON DIOXIDE" - Dr. Abdul Qader* and Dr Laurie J. Cookson(Australia)

K-1: "Subcritical and Supercritical Water Oxidation of Sewage Sludge" - Toshitaka Funazukuri, Masakazu Hirota(Japan)

14:05 J-2 : "Supercritical Fluid Extraction of Natural Products from St John's wort" - Mari Mannila, Hakwon Kim*, and Chien M Wai(U.S.A)

K-2 : "Cleaning of Toxic Chemical Contaminated Water through sc CO₂ Extraction" - Jya-Jyun Yu, Kong-Hwa Chiu, Ti-Hul Fang, Chih-Hung Lin, Hung-Chih Wang (Twain)

14:30 J-3 : "Supercritical Fluid Extraction of Oriental Natural Pharmaceuticals with Emphasis on Commercialization" - Young Hae Choi, Ki-Pung Yoo(Korea)

K-3 : "The Possibility of the Recycle of Dismantling Metallic Wastes from the KRR-1&2 through the Analyses of Foreign Cases" Hee-Reyoung Kim, Un-Soo Chung, Jae-In Shin(Korea)

14:55 J-4 : "Extraction of Diosgenin with Supercritical CO₂" - Shufen Li, Wei Yan and Shaokun Tiang(China)

K-4 : "Radical Reactions in High Temperature and Supercritical water" - Guozhong Wu , *Yosuke Katsumura(Japan)

15:15 COFFEE BREAK

15:40 J-5 : "Why Cosolvent Can Enhance the Solubility of Solute in SCFs?" - Buxing Han*, Xiaogang Zhang, Jianling Zhang, Tao Jiang, Zhimin Liu, Jun He, Hongping Li, Guoying Zhao, Jianmin Zhang (China)

K-5 : "Studies on decontamination for uranium conversion plant decommissioning" - W. Z. Oh, W.K. Choi and C.H. Jung(Korea)

16:05 J-6 : "Application of QCM to dissolution study in supercritical and liquid CO₂" - Kwangheon Park, Moonsung Koh, Chunghyun Yoon, Hoongdo Kim, Hakwon Kim(Korea)

K-6 : "NMR studies on structures and solubilities of uranyl complexes with b-diketonate in supercritical CO₂" - Takehiko Tsukahara, Yoshihito Kayaki, Koichiro Mizuoka, Takao Ikariya, Yasuhisa Ikeda(Japan)

16:30 J-7 : "Supercritical 2-propanol as a reducing agent: Reduction of ketones and aldehydes to corresponding alcohols" - Takashi Kamitanaka, Atsushi Daimon, Tomoko Matsuda and Tadao Harada(Japan)

K-7 : "An extreme disposition method for low level radioactive wastes using supercritical water" - Wataru Sugiyama, Tomoyuki Koizumi, Akira Nishikawa, Yuuji Sugita, *Ki Chul Park, *Hiroshi Tomiyasu(Japan)

16:55 J-8 : "SFE/FT-IR Moisture Measurement System for Plutonium Dioxide Material" - W. Kirk Hollis, J. W. King, Craig M.V. Taylor, and Randy Tremper(U.S.A)

K-8 : "Decomposition of Tri-n-butylphosphate-Nitric Acid Complex in Supercritical Carbon Dioxide" - Nobuo Ishihara, Yasuo Hasegawa, Takashi Shimada, Yukihide Mori, Shigeru Kunishima, Youichi Enokida, Ichiro Yamamoto, Atsushi Aoshima, Shinya Ogumo, Kazuo Aoki(Japan)

TUESDAY, NOVEMBER 5, 2002

08:00 REGISTRATION

08:30 INVITED LECTURE 05 : "Tuning the thermodynamic and kinetic properties of the reactions in supercritical CO₂ by controlling the phase behavior" - Han Buxing(China)

09:20 INVITED LECTURE 06 : "Potential of Supercritical and Liquid CO₂ for radiochemical needs" - Andrew Shadrin(Russia)

10:10 COFFEE BREAK

10:30 INVITED LECTURE 07 : "Removal and destruction of dioxins from fly ash by a combined process of supercritical CO₂ extraction and SCWO" - Motonobu Goto(Japan)

11:20 INVITED LECTURE 08 : "Critical Fluid Technology Options for Isolating and Processing Agricultural and Natural Products" - Jerry King(U.S.A)

12:10 LUNCH

12:40 SHORT COURSE

13:40 L-1 : "Particle Design using Supercritical Fluids" - Youn-Woo Lee (Korea)

M-1 : "Decontamination of Uranium Waste Based on scCO₂ Leaching Method" - Yoshihiro Meguro, Shuichi Iso, Zenko Yoshida, Jin Ougiyanaqi, Youichi Enokida, Ichiro Yamamoto, Osamu Tomioka, Seiichi Yamamoto, Ryutarō Wada, Kenji Yamaguchi (Japan)

14:05 L-2 : "Supercritical CO₂ extraction of glycyrrhizic acid from Glycyrrhiza glabra" - G.-B. Lim , J.-H. Ryu, H.-S. Kim*, B.-Y. Kim*, S.-Y. Lee **(Korea)

M-2 : "Investigation on Supercritical Water Oxidation of Sulfide" - Tao Wang*, Jun Liu, Botao Xiang , and Zhonyao Shen(China)

14:30 L-3 : "Extracting grape seed oil and procyanidins from winery residues by scCO₂ and its comprehensive technology" - Shen Xiaojing, Lai Bingsen, Chen Zhentong, Tang Lian and Shun Shuqin(China)

M-3 : "Nanoparticle preparation and its catalytic organic reactions in water-in-CO₂ microemulsion using fluorinated AOT" - Hakwon Kim, Yeounwoo Jin, Kwangheon Park, Hoongdo Kim(Korea)

14:55 L-4 : "SOLID SOLUBILITY PREDICTION FROM PARTIAL MOLAR VOLUME FRACTION OF SOLVENT IN ANTISOLVENT-SOLVENT MIXTURE" - Mamata Mukhopadhyay, Sameer V. Dalavi(India)

M-4 : "Binary Diffusion Coefficient, Partition Ratio and Partial Molar volume for Omega 6 Compounds in scCO₂ by a Tracer Response Technique" Takahiro Kikuchi, Chang Yi Kong, *Toshitaka Funazukuri, Seiichiro Kagei(Japan)

15:15 COFFEE BREAK

15:40 L-5 : "Metal ion extraction using salen derivatives in supercritical and liquid CO₂" - Hoongdo Kim, Seunghyun Koh, Kwangheon Park, Hakwon Kim(Korea)

M-5 : "A Kinetics Study of Acetic Acid Oxidation in Supercritical Water" - PAN Zhi-yan, LIN Chun-mian, ZHOU Hong-yi(China)

16:05 L-6 : "CO₂ as a Soft Oxidant for H-Abstraction" - Sang-Eon Park(Korea)

M-6 : "Concept of reprocessing system with Super-DIREX process" - Takashi Shimada, Nobuo Ishihara, Yukihide Mori, Shigeru Kunishima, Shinya Ogumo, Kazuo Aoki, Yuji Kosaka, Kunihiro Ito, Yoichi Enokida, Ichiro Yamamoto(Japan)

16:30 L-7 : "Study on Removing Pesticides Residues of BHC from Radix Ginseng" - Li Shufen, Wang Youjun, Tian Songjiang(China)

M-7 : "A Pulse Radiolysis Study to Estimate the Radiolytic Yields of Water Decomposition Products in High-Temperature and Supercritical Water: Use of Methyl Viologen as a Scavenger" - Mingzhang LIN, Yosuke KATSUMURA, Guozhong WU, Yusa MUROYA, Hui HE, Tomomi MORIOKA(Japan)

16:55 L-8 : "Chemical Reaction in Binary Mixtures near the Critical Region: Thermal Decomposition of 2,2' -Azobis(isobutyronitrile) in CO₂-Ethanol" - Buxing Han*, Hongping Li, Jun Liu, Yanhong Chang, Liang Gao, Zhenshan Hou, Tao Jiang, Zhimin Liu, Xiaogang Zhang, Jun He, Weize Wu, Guanying Yang(China)

M-8 : "Supercritical Carbon dioxide-Induced Epitaxy (Crystalline Overgrowth) on Nylon1212"-Qun Xu, Yuning Chang(China)

WEDNESDAY, NOVEMBER 6, 2002

09:00 - 13:00 The Korean Folk Village

14:00 - 17:30 Suwon City Tour (Suwon Castle)

* The tour fee is \$50. - Lunch and Dinner are included in the fee. - Suwon is famous for 'Kalbi', korean style beef(rib). 'Kalbi' will be provided at the dinner

MONDAY, NOVEMBER 4, 2002

- A-01 : Chemical conversion of Sugi (*Cryptomeria japonica* D. Don) wood in subcritical and supercritical water with semi-batch reactor- Seiichi Yamamoto, Takahiro Shimizu, Masahiro Matsunaga, Hiroaki Matsui
- A-02 : Extraction of Lipid Components from Hibiscus Seeds by Supercritical Carbon Dioxide (SC-CO₂) and Ethanol Mixtures- R. A. Holser, J. W. King, G. Bost
- A-03 : Recrystallization Processing of Biomaterials with Supercritical Fluids- Jeong Woo Lee, Jong Sung Lim, Youn-Woo Lee
- A-04 : Effect of Atomization and Flow Rates on Particles formed with Supercritical Fluids- Jeong Woo Lee, Jong Sung Lim, Youn-Woo Lee
- A-05 : Selectivity of Polymer Structure in Cyclopolymerization of Dimethyl Dipropargylmalonate with Supercritical Fluids- Young-Jae Hur, Jae-Duck Kim, Youn-Woo Lee
- A-06 : Ring-Opening Polymerization of L-Lactide in Supercritical Fluid- Ji Won Park, Soo Hyun Kim, Soo Young Park, Jong Sung Lim, Young Ha Kim, Youn-Woo Lee
- A-07 : Supercritical water oxidation of dimethyl methyl phosphonate - a chemical agent simulant - Byoung-Min Lee, Youn-Woo Lee
- A-08 : Uncatalysed Partial Oxidation of p-Xylene in Supercritical Water- Jae-Duck Kim, Young-Lae Kim, Jong Sung Lim, Youn-Woo Lee
- A-09 : Supercritical CO₂ Extraction of Paraffin Wax in Metal Injection Molding Process- Young Ho Kim, Youn-Woo Lee, Jae-Duck Kim, Jong Sung Lim*
- A-10 : Interfacial tension between supercritical CO₂ and nickel plating solution with nonionic surfactant - Ji-Young Park, Hyun Sang Jin, Youn-Woo Lee, Jong Sung Lim*
- A-11 : THE DYEING OF POLYESTER TEXTILE IN SUPERCRITICAL CARBON DIOXIDE - S. N. Joung, H. S. Kim, K.-P. Yoo, S. Y. Kim, K. J. Yong, Y. H. Park
- A-12 : Investigations on Improving Solubility and Bioavailability of Itraconazole using Supercritical Fluid Technology- Sibeum Lee, Kyung-wan Nam, Guk Hyun Jo and Sung-Joo Hwang
- A-13 : Dimethyl Carbonate Synthesis from Methanol and Supercritical Carbon Dioxide - Jae-Duck Kim, Seung Tae Hong, Jong Sung Lim, Youn-Woo Lee
- A-14 : PREPARATION OF AMORPHOUS FORM OF SIROLIMUS USING SUPERCRITICAL ANTISOLVENT PROCESSING- HyukJin Kimo, JongSoo Woo, YoungHun Kim, ChangHyun Lee
- A-15 : Extraction of Cu from Its Nitrate and Metal with Chelating Agents and Tri-n-butylphosphate in Supercritical Carbon Dioxide- Ryosuke Shimizu, Osamu Tomioka, Youichi Enokida, Ichiro Yamamoto
- A-16 : Supercritical Fluid Chromatography using Cryptand (2B,2,1) Resin for Lithium Isotope Separation - Takeshi Watanabe, Ichiro Yamamoto, Osamu Tomioka, Youichi Enokida
- A-17 : Extraction of TBP from Water with Supercritical CO₂ - Osamu Tomioka, Youichi Enokida, Ichiro Yamamoto
- A-18 : Preparation of Mesoporous MCM-41/Poly(acrylic acid) Composites Using Supercritical CO₂ as a Solvent - Zhimin Liu, Zexuan Dong, Buxing Han*, Jianling Zhang, Zhenshan Hou, Yong Wang, Jiaqiu Wang
- A-19 : Supercritical Water Oxidation of Halogen Compound - HyeonCheol Lee, JungHyun In, KyungYub Hwang, Sang-Young Lee, Chang-Ha Lee, SeungKil-Lee, KwangHo-Choi

TUESDAY, NOVEMBER 5, 2002

- B-01 : Kinetic models for supercritical water oxidation of wastewater from TPA manufacturing plant - Tae-Joon Park, Jong Sung Lim, Youn-Woo Lee
- B-02 : Decomposition of wastewater from terephthalic acid manufacturing plant in supercritical water - Tae-Joon Park, Jong Sung Lim, Youn-Woo Lee
- B-03 : Biodiesel Synthesis in Supercritical Methanol- Young-Jae Hur, Jae-Duck Kim, Youn-Woo Lee
- B-04 : Kinetic and Mechanistic Studies of L-Lactide Polymerization in Supercritical Fluid- Ji Won Park, Soo Hyun Kim, Soo Young Park, Jong Sung Lim, Young Ha Kim, Youn-Woo Lee
- B-05 : Preparation of ultra-fine metal oxide particles by hydrothermal synthesis in supercritical water - Eun young Lee, Youn-Woo Lee
- B-06 : Electrocarboxylation of 1-naphthalenecarboxylic acid from 1-chloronaphthalene in supercritical CO₂ acetonitrile medium - Ji-Young Park, Chang-Ha Lee, Youn-Woo Lee, Jae-Duck Kim, Jong Sung Lim*
- B-07 : Electroplating of Ni on Cu in Ni-plating solution/supercritical CO₂ emulsion - Ji-Young Park, Chang-Ha Lee, Youn-Woo Lee, Jong Sung Lim*
- B-08 : Solubility of Polycaprolactone in Various Supercritical Solvents- Ki-Hyun Park, Youn-Woo Lee, Jae-Duck Kim, Jong Sung Lim
- B-09 : Phase Behavior of Biodegradable Polymers with Supercritical Solvents - Ki-Hyun Park, Chang-Ha Lee, Youn-Woo Lee, Jong Sung Lim*
- B-10 : The Study of Photoresist removal by using the Supercritical Carbon dioxide - S. Y. Kim, W. C. Jeon, Ki-Pung Yoo,
- B-11 : Preparation of Bupivacaine Loaded Poly (L-Lactic Acid) Microspheres by Supercritical Fluid Processing- Sibeum Lee and Sung-Joo Hwang
- B-12 : Preparation of Amorphous Form of Cefuroxime Axetil using Supercritical Fluid Processing - Guk Hyun Jo, Sibeum Lee, Sung-Joo Hwang
- B-13 : Distributions of HDO and H₂O in High Pressure CO₂-Tri-n-butylphosphate-Water System - Yoshinobu Sakakibara, Ichiro Yamamoto, Osamu Tomioka, Youichi Enokida
- B-14 : The development of a direct pH measurement method of aqueous solution in equilibrium with supercritical carbon dioxide- Shun Sakamoto, Tsuyoshi Imakita, Ryutarō Wada, Seiichi Yamamoto
- B-15 : Preparation of Poly[perfluoroalkyl (meth)acrylate] for dispersion polymerization in supercritical CO₂- Won Bae, Hyunsuk Lee, Hwayong Kim
- B-16 : A New and Green Route to Prepare Interpenetrating Polymer Network with Nanometer Dispersion.- Dan Li, Zhimin Liu, Jun He, Buxing Han*, Lun Liu, Hongping Li, Dongxia Liu, Huaizhou Zaho
- B-17 : Direct Synthesis of Dimethyl Carbonate using Supercritical CO₂, Propylene Oxide, and Methanol with very High Conversion and Selectivity - Yanhong Chang, Buxing Han *, Liang Gao, Guoying Zhao, Jianmin Zhang, Rui Zhang, Tiancheng Mu, Tao Jiang, Juncheng Liu
- B-18 : SCWO of Halogenated Hydrocarbon in Anti-corrosive Reactor - SangYoung Lee, HyeonCheol Lee, SeungKil-Lee, KwangHo-Choi, KyungYub Hwang, Chang-Ha Lee