Program at a glance

Sunday, November 5, 2017				
14:00 - 17:30	Registration			
18:30 - 20:30	Welcome Gathering			
Monday, November 6, 2017				
8:00 - 9:00	Registration			
9:00 - 9:10	Opening Address			
9:10 - 10:00	Plenary Lecture (PL1) / Kenneth L. Nash (Washington State University / USA)			
10:00 - 10:20	Coffee Break			
Room	A - TENRAN (4F)	B - TENGYOKU (4F)	C - KAIHO (3F)	D - ZUIYO (3F)
Session	Fundamentals and Analytical Chemistry	Hydrometallurgy	New Extractants and Solvents	Nuclear Fuel Application
Chairs	Hans-Jörg Bart, Kenji Chayama	Hirokazu Narita, Jan J. Weigand	Keisuke Ohto, Marco Wenzel	Andreas Geist, Kenji Takeshita
10:20 - 10:50	Keynote Lecture (KL1) / Bruce A. Moyer (Oak Ridge National Laboratory / USA)	Keynote Lecture (KL2) / Peter Tasker (University of Edinburgh / GBR)	Keynote Lecture (KL3) / Tatsuya Oshima (University of Miyazaki / JPN)	Keynote Lecture (KL4) / Tatsuro Matsumura (JAEA / JPN)
10:50 - 11:10	(OA01) Karsten Gloe (TU Dresden / GER)	(OB01) Rebecca Nicolson (University of Edinburgh / GBR)	(OC01) Ross Gordon (Johnson Matthey / GBR)	(OD01) Andreas Geist (Karlsruhe Institute of Technology / GER)
11:10 - 11:30	(OA02) Yasutaka Nishihara (Sumitomo Metal Mining / JPN)	(OB02) Michiaki Matsumoto (Doshisha University / JPN)	(OC02) Yuki Ueda (JAEA / JPN)	(OD02) Hitos Galán (CIEMAT / ESP)
11:30 - 11:50	(OA03) Tomoya Suzuki (AIST / JPN)	(OB03) Takeshi Ogata (AIST / JPN)	(OC03) Shoichi Katsuta (Chiba University / JPN)	(OD03) Robin Taylor (National Nuclear Laboratory / GBR)
11:50 - 12:10	(OA04) Joschka M. Schulz (TU Berlin / GER)	(OB04) Shafiq Alam (University of Saskatchewan / CAN)	(OC04) Kiyoshi Kanie (Tohoku University / JPN)	(OD04) Peter Zalupski (Idaho National Laboratory / USA)
12:10 - 13:30	Lunch Break			
Session	Fundamentals and Analytical Chemistry	Hydrometallurgy	New Extractants and Solvents	Nuclear Fuel Application
Chairs	Bruce A. Moyer, Akira Ohashi	Keisuke Ohto, Peter Tasker	Shoichi Katsuta, Maria Boltoeva	Tatiana G. Levitskaia, Giuseppe Modolo
13:30 - 13:50	(OA05) Joern Villwock (TU Berlin / GER)	(OB05) Sarah Bélair (ERAMET Research / FRA)	(OC05) Kojiro Shimojo (JAEA / JPN)	(OD05) Tatiana Levitskaia (Pacific Northwest National Laboratory / USA)
13:50 - 14:10	(OA06) Jens Heine (University of Kaiserslautern / GER)	(OB06) Euan Doidge (University of Edinburgh /GBR)	(OC06) Maria Boltoeva (University of Lyon / FRA)	(OD06) Giuseppe Modolo (Forschungszentrum Juelich / GER)
14:10 - 14:30	(OA07) Tobias Lopian (ICSM/LTSM/CEA / FRA))	(OB07) Kevin L. Lyon (Idaho National Laboratory / USA)	(OC07) Hiroyuki Okamura (JAEA / JPN)	(OD07) Daisuke Watanabe (Hitachi / JPN)
14:30 - 14:50	(OA08) Satoshi Tsukahara (Osaka University / JPN)	(OB08) Jinfeng Tang (Chalmers University of Technology / SWE)	(OC08) James E. Quinn (ANSTO / AUS)	(OD08) Taoxiang Sun (Tsinghua University / CHN)
14:50 - 15:10	(OA09) Matthaeus Siebenhofer (TU Graz / AUT)	(OB09) Cecile Marie (CEA / FRA)	(OC09) Sandrine Dourdain (ICSM CEA Marcoule / FRA)	(OD09) Michal Cibula (Tokyo Institute of Technology / JPN)
15:10 - 15:30		(OB10) Christian Korb (University of Kaiserslautern / GER)	(OC10) Aleksandra Wojciechowska (University of Technology / POL)	(OD10) Kenji Takeshita (Tokyo Institute of Technology / JPN)
15:30 - 16:00	Coffee Break			
Session	Fundamentals and Analytical Chemistry	Hydrometallurgy	New Extractants and Solvents	Nuclear Fuel Application
Chairs	Karsten Gloe, Naoki Hirayama	Kaoru Fujinaga, Kathryn Mumford	Kojiro Shimojo, Sandrine Dourdain	Takehiko Tsukahara, Mikael Nilsson
16:00 - 16:20	(OA10) Kenji Chayama (Konan University / JPN)	(OB11) Fedor Vasilyev (Lappeenranta University of Technology / FIN)	(OC11) Mikhail S. Tyumentsev (Chalmers University of Technology / SWE)	(OD11) Takehiko Tsukahara (Tokyo Institute of Technology / JPN)
16:20 - 16:40	(OA11) Andreas Pfennig (University of Liege / BEL)	(OB12) Mikiya Tanaka (AIST / JPN)	(OC12) Toru Kobayashi (JAEA / JPN)	(OD12) Simonnet Marie (JAEA / JPN)
Session	Others (including Super Critical Fluid)	Hydrometallurgy	New Extractants and Solvents	Nuclear Fuel Application
Chairs	Maria Guadalupe Sanchez-Loredo, Syouhei Nishihama	Kaoru Fujinaga, Kathryn Mumford	Kojiro Shimojo, Sandrine Dourdain	Takehiko Tsukahara, Mikael Nilsson
16:40 - 17:00	(OA12) Susumu Nii (Kagoshima University / JPN)	(OB13) Jan J. Weigand (TU Dresden / GER)	(OC13) Hirokazu Narita (AIST / JPN)	(OD13) Boxuan Yu (Tsinghua University / CHN)
17:00 - 17:20	(OA13) Maria Guadalupe Sanchez Loredo (Universidad Autonoma / MEX)	(OB14) Toni Helbig (Helmholtz-Zentrum Dresden-Rossendorf / GER)	(OC14) Adam Balinski (Helmholtz Institute Freiberg / GER)	(OD14) Mikael Nilsson (University of California Irvine / USA)
17:20 - 17:40	(OA14) Heng Ming Yuan (Shinshu University / JPN)	(OB15) Sami Virolainen (Lappeenranta University of Technology / FIN)	(OC15) Yuji Sasaki (JAEA / JPN)	(OD15) Manuel Miguirditchian (CEA / FRA)
17:40 - 18:00		(OB16) Mike Hutton-Ashkenny (Hatch / AUS)	(OC16) Tsuyoshi Sugita (JAEA / JPN)	(OD16) Manuel Miguirditchian (CEA / FRA)

Chair: Kenji Takeshita

Tuesday, November 7, 2017				Chair: Hans-Jörg Bart
9:00 – 9:50	Plenary Lecture (PL2) / Boelo Schuur (University of Twente / NED)			
9:50 - 10:10	Coffee Break "sponsored by JX Nippon Mining & Metals Corporation"			
Session	Metal Recycling	Hydrometallurgy	New Extractants and Solvents	Nuclear Fuel Application
Chairs	Martina Petranikova, Mikiya Tanaka	Michiaki Matsumoto, Shafiq Alam	Alexandre Chagnes, Tatsuya Oshima	Shinichi Suzuki, Sylvain Costenoble
10:10 - 10:30	Keynote Lecture (KL5) / Keisuke Ohto (Saga University / JPN) (10:20 - 10:50)	Keynote Lecture (KL6) / Kathryn Mumford (University of Melbourne / AUS) (10:20 - 10:50)	(OC17) Alexandre Chagnes (University of Lorraine / FRA)	(OD17) Junju Mu (University of Manchester / GBR)
10:30 - 10:50			(OC18) Kateryna Omelchuk (Paris Sciences et Lettres / FRA)	(OD18) Manuel Miguirditchian (CEA / FRA)
10:50 - 11:10	(OA15) Cristian Tunsu (Chalmers University of Technology / SWE)	(OB17) Lijuan Li (Qinghai Institute of salt lakes / CHN)	(OC19) Jessica Vovers (University of Melbourne / AUS)	(OD19) Laurence Berthon (CEA / FRA)
11:10 - 11:30	(OA16) Masatoshi Takano (Sumitomo Metal Mining / JPN)	(OB18) Lang Li (Tsinghua University / CHN)	(OC20) Jessica Vovers (University of Melbourne / AUS)	(OD20) Sylvain Costenoble (CEA Marcoule / FRA)
11:30 - 11:50	(OA17) Sofia Riano (KU Leuven / BEL)	(OB19) Jonathan Lipp (TAT / ISR)	(OC21) Antero Laitinen (VTT Technical Research Centre / FIN)	(OD21) Eduardo Garciadiego Ortega (University College London / GBR)
11:50 - 12:10	(OA18) Yundon Wang (Tsinghua University / CHN)		(OC22) Vicky Lange (University College London / GBR)	(OD22) Atsushi Sakamoto (JAEA / JPN)
12:10 - 13:30	Lunch Break			
13:30 – 15:30	Poster Session			Chair: Kazuharu Yoshizuka
15:30 - 16:00	Coffee Break "sponsored by JX Nippon Mining & Metals Corporation"			
Session	Metal Recycling	Environmental Applications	New Extractants and Solvents	Nuclear Fuel Application
Chairs	Damien Bourgeois, Keisuke Ohto	Koichiro Shiomori, Hiroshi Umakoshi	Hiroyuki Okamura, Minako Iwakuma	Yuji Sasaki, Charlotte Parrington
16:00 - 16:20	(OA19) Marco Wenzel (TU Dresden / GER)	Keynote Lecture (KL7) / Esteban Quijada-Maldonado (University of Santiago / CHI) (16:10 - 16:40)	(OC23) Miriam Faulde (AVT. Fluid Process Engineering / GER)	(OD23) Masahiko Nakase (Idaho National Laboratory / USA)
16:20 - 16:40	(OA20) Bengi Yagmurlu (MEAB Chemie Technik / GER)		(OC24) Marc Petzold (TU Berlin / GER)	(OD24) Charlotte Parrington (University of Leeds / GBR)
Session	Metal Recycling	Environmental Applications	Plant and Equipment Design	Membrane Extraction and Liquid Membrane
Chairs	Damien Bourgeois, Keisuke Ohto	Koichiro Shiomori, Hiroshi Umakoshi	Michiaki Matsumoto, Susumu Nii	Masahiro Goto
16:40 - 17:00	(OA21) Martina Petranikova (Chalmers University of Technology / SWE)	(OB22) Gang Ye (Tsinghua University / CHN)	Keynote Lecture (KL8) / Matthaeus Siebenhofer (TU Graz / AUT) (16:50 - 17:20)	Keynote Lecture (KL9) / Spas D. Kolev (University of Melbourne / AUS) (16:50 - 17:20)
17:00 - 17:20	(OA22) Rene J. Wiersma (Shell Global Solutions / NED)	(OB23) Javad Saien (Bu-Ali Sina University / IRI)		
17:20 - 17:40	(OA23) Daniel Bien (ExxonMobil Chemical / USA)	(OB26) Yongtae Kim (GIST / KOR)	(OC25) David Leleu (University of Liege / BEL)	(OD25) Mohammad Reza Yaftian (University of Zanjan / IRI)
17:40 - 18:00	(OA24) Daniel Whittaker (National Nuclear Lab / GBR)		(OC26) Maria Chiara Quaresima (University of Liege / BEL)	(OD26) Duo Wang (University of Melbourne / AUS)
Wednesday, November 8, 2017				Chair: Yu Komatsu
9:00 – 9:50	Plenary Lecture (PL3) / Geoff Stevens (University of Melbourne / AUS)			
9:50 – 10:30	Award Sesson			
10:30 – 10:50	Coffee Break			
Session	Metal Recycling	Environmental Applications & Oil Purification and Refining	Plant and Equipment Design	Membrane Extraction and Liquid Membrane
Chairs	Marco Wenzel, Narita Hirokazu	Ryuichi Egashira, Kaoru Ohe	Sebastian Maaß, Susumu Nii	Hiroshi Umakoshi, Michiaki Matsumoto
10:50 - 11:10	(OA25) Jae-chun Lee (KIGAM / KOR)	(OB24) Daniela Painer (TU Graz / AUT)	(OC27) Sebastian Maaß (SOPAT / GER)	(OD27) Kerstin Forsberg (KTH Royal Institute of Technology / SWE)
11:10 - 11:30	(OA26) Damien Bourgeois (ICSM / FRA)	(OB25) Andreas Toth (TU Graz / AUT)	(OC28) Armin Eggert (AVT. Fluid Process Engineering / GER)	(OD28) Eugenio Bringas (Universidad de Cantabria / ESP)
11:30 - 11:50	(OA27) Hidetaka Kawakita (Saga University / JPN)	(OB27) Enrico Gianino (Tokyo Institute of Technology / JPN)	(OC29) Hang Chen (East China University of Science and Technology /	(OD29) Marlene Kienberger (TU Graz / AUT)
11:50 - 12:10	(OA28) Sergei Temerov (Krastsvetmet / RUS)		(OC30) Thilo Koegl (University of Erlangen-Nuremberg / GER)	(OD30) Hiroshi Umakoshi (Osaka University / JPN)
12:10 - 13:30	Lunch Break			
13:30 - 17:00	Excursion			
18:00 - 21:00	Banquet			
Thursday, November 9, 2017				Chair: Satoshi Tsukahara
9:00 - 9:50	Plenary Lecture (PL4) / Hitoshi Watarai (Osaka University / JPN)			
9:50 - 10:20	Coffee Break			
Session	Solid Liquid Extraction	Award Session of JASE	Plant and Equipment Design	
Chairs	Hidetaka Kawakita, Liangrong Yang	Masahiro Goto, Kazuharu Yoshizuka	Hirochika Naganawa, Michiaki Matsumoto	
10:20 - 10:40	(OA29) Wen Li (University of Melbourne / AUS)	Award Lecture (AL1) / Mikiya Tanaka (AIST / JPN)	(OC31) Benedikt Weber (AVT. Fluid Process Engineering / GER)	
10:40 - 11:00	(OA30) Paul Haas (TU Braunschweig / GER)		(OC32) Hirochika Naganawa (JAEA / JPN)	
11:00 - 11:20	(OA31) Liangrong Yang (Institute of Process Engineering / CHN)	Award Lecture (AL2) / Syouhei Nishihama (University of Kitakyushu / JPN)	(OC33) Annika Grafschafter (TU Graz / AUT)	
11:20 - 11:40	Move to Main Hall			
11:40 - 12:00	Closing Remark			

Full Program

November 5 Sunday

Foyer (4F)
14:00－17:30 Registration

Conference Room TENZUI (4F)
18:30－20:30 Welcome Gathering

November 6 Monday

Foyer (4F)
8:00－9:00 Registration

Conference Room TENZUI (4F)
9:00－9:10 Opening Remark
Masahiro Goto

Chairperson: Kenji Takeshita
9:10－10:00 Plenary Lecture (PL1)
Improving TALSPEAK-based Separation Systems: Explorations of Relevant f-Element Solution Chemistry
Kenneth L. Nash

Room TENJU (4F)・TENYO (4F)
10:00－10:20 Coffee Break

Fundamentals and Analytical Chemistry

Conference Room A - TENRAN (4F)
Chairpersons: Hans-Jörg Bart, Kenji Chayama
10:20－10:50 Keynote Lecture (KL1)
The Eleven Ways to Use Host-Guest Chemistry for Ion Recognition in Liquid-Liquid Extraction
Bruce A. Moyer

10:50－11:10 (OA01) Supramolecular Strategies for Metal Extraction: Structure-Extractability Relationships of Multifunctional Diimine And Diamine Extractants
Karsten Gloe, Norman Kelly, Kerstin Gloe, Marco Wenzel, Jan J. Weigand

11:10－11:30 (OA02) Molecular Simulation of Solvent Extraction with Hydroxyoxime And/Or Carboxylic Acid
Yasutaka Nishihara, Satoshi Yoshio, Koichiro Maki

11:30－11:50 (OA03) Efficient Extraction of Ruthenium(III) from Hydrochloric Acid Solutions Using An Amide-Containing Amine Compound
Tomoya Suzuki, Hirokazu Narita, Takeshi Ogata, Tohru Kobayashi, Hideaki Shiwaku, Tsuyoshi Yaita

11:50－12:10 (OA04) Calibrated Color Schlieren: A New Approach to The Visualization and Quantification of Concentration Fields And Mass Transfer in Liquid/Liquid Systems
Joschka M. Schulz, Lutz Böhm, Matthias Kraume

Room ORCHARD (2F)・FOUNTAIN (2F)

12:10－13:30 Lunch Break

Conference Room A - TENRAN (4F)

Chairpersons: Bruce A. Moyer, Akira Ohashi

13:30－13:50 (OA05) Coalescence in Liquid/Liquid Systems with Ion Addition
Jörn Villwock, Felix Gebauer, Hans-Jörg Bart, Matthias Kraume

13:50－14:10 (OA06) Binary Droplet Coalescence-Influence of Ions and Mass Transfer
Jens Heine, Felix Gebauer, Christian Wecker, Eugeny Kenig, Hans-Jörg Bart

14:10－14:30 (OA07) Probing Electrodynamic Phenomena in Metal-Extracting Water-Poor Microemulsions
Tobias Lopian, Sandrine Dourdain, Thomas Zemb, Werner Kunz

14:30－14:50 (OA08) Microscope Measurements of the Passing of Individual Paramagnetic Particles through Interface of Aqueous Two-Phase System by Magnetic Force
Kazuya Katayama, Satoshi Tsukahara

14:50－15:10 (OA09) Turbidity Control
Robert Macher-Ambrosch, Matthäus Siebenhofer

Room TENJU (4F)・TENYO (4F)

15:30－16:00 Coffee Break

Conference Room A - TENRAN (4F)

Chairpersons: Karsten Gloe, Naoki Hirayama

16:00－16:20 (OA10) Coextraction and Concentration of Dyes into The Ionic Liquid Formed in An Aqueous Solution
Kenji Chayama, Nobuhiko Ooi, Jun Kawamura, Mari Toyama, Satoshi Iwatsuki

16:20－16:40 (OA11) Tutorial Videos on Solvent Extraction
Andreas Pfennig

Others (including Super Critical Fluid)

Conference Room A - TENRAN (4F)

Chairpersons: Maria Guadalupe Sanchez-Loredo, Syouhei Nishihama

16:40－17:00 (OA12) Selective Recovery of Gallium from Industrial Wastes with Continuous Counter-Current Foam Separation
Susumu Nii, Mikiro Hirayama, Takehiko Kinoshita, Shinya Kitagawa, Yasunori Okano

17:00－17:20 (OA13) Recovery of Copper and Cobalt Contained in A Residue of A Zinc Electrolytic Refinery, and the Synthesis of Semiconductor Nanoparticles
María Guadalupe Sánchez-Loredo, Xóchitl María Macías Rodríguez, Gladis Judith Labrada Delgado, Zeferino Gamino Arroyo

17:20－17:40 (OA14) Pressurized Hot-Water Extraction for the of Whole Coptis. sp: An Evaluation of the Chemical Content and Bioactivity
Ming Yuan Heng, Shigeru Katayama, Takakazu Mitani, Eng Shi Ong, Soichiro Nakamura

Hydrometallurgy

Conference Room TENGYOKU (4F)

Chairpersons: Hirokazu Narita, Jan J. Weigand

10:20－10:50 Keynote Lecture (KL2)
Strong, Selective and Stable Synergists for Nickel Extraction by DNNSAH
Peter A Tasker, James W Roebuck, Philip J Bailey, Euan D Doidge, Mary R Healy, Niall O'Toole.

10:50－11:10 (OB01) Understanding Rhodium Solvent Extraction: A Mode of Action Study
Rebecca M. Nicolson, Ross J. Gordon, Jason B. Love, Peter A. Tasker, Carole A. Morrison

11:10－11:30 (OB02) Extraction of Ferric and Manganese Ions with Aqueous Two-Phase System Formed by Ionic Liquid and Polyethylene Glycol
Pius Dore Ola, Noriyuki Okabe, Michiaki Matsumoto

11:30－11:50 (OB03) Recovery of Rare Earth Elements Using Polymeric Adsorbent Modified with Diglycolamic Acid Ligands
Takeshi Ogata, Tomohiro Shinozaki, Hirokazu Narita, Mikiya Tanaka

11:50－12:10 (OB04) Solvent Extraction of Copper from Chloride Media in a Combined Oxidation/Extraction Process
Shafiq Alam, David Dreisinger

Room ORCHARD (2F)・FOUNTAIN (2F)

12:10－13:30 Lunch Break

Conference Room B - TENGYOKU (4F)

Chairpersons: Keisuke Ohto, Peter Tasker

13:30－13:50 (OB05) Recovery of Rare Earths elements by Solvent Extraction vs Precipitation Method: The Maboumine Project
Denis Beltrami, Sarah Bélair, Julie Gorge, Valérie Weigel, Fabien Burdet

13:50－14:10 (OB06) Solvent Extraction of Gold and Other Chloridometalates from WEEE Using Simple Amides
Euan D. Doidge, Innis Carson, Ross J. Ellis, Carole A. Morrison, Peter A. Tasker, Jason B. Love

14:10－14:30 (OB07) Selective Scrubbing to Separate Rare Earth Elements Using a Neutral Ligand
Kevin L. Lyon, Derek M. Brigham, Mitchell R. Greenhalgh, Amy K. Welty, Melissa M. Warner, and Ross J. Ellis

14:30－14:50 (OB08) Separation and Recovery of Zinc from MSWI Fly Ash Leachates Using Cyanex 272, Cyanex 923 and Cyanex 572
Jinfeng Tang, Christian Ekberg, Britt-Marie Steenari

14:50－15:10 (OB09) Understanding of Uranium Extraction Mechanisms from Phosphoric and Sulphuric Media Using DEHCNPB
Boris Fries, Clémence Berger, Cécile Marie, Vincent Pacary, Christian Sorel, Hamid Mokhtari, Marie-Christine Charbonnel

15:10－15:30 (OB10) Steady State Population Balance Modeling of Zinc Extraction in a Kuhni Column
Samer Alzyod, Christian Korb, Menwer Attarakih, Hans-Jorg Bart

Room TENJU (4F)・TENYO (4F)

15:30－16:00 Coffee Break

Conference Room B - TENGYOKU (4F)

Chairpersons: Kaoru Fujinaga, Kathryn Mumford

16:00－16:20 (OB11) Rigorous Modeling of Equilibrium in Solvent Extraction of Cu and Fe over Wide Range of Concentrations Using Acorga M5640
Fedor Vasilyev, Sami Virolainen, Tuomo Sainio

16:20－16:40 (OB12) Modeling of Solvent Extraction Equilibria of Cu(II) and NH_3 from Alkaline Solutions with LIX84I
Shubin Wang, Jie Li, Hirokazu Narita, Mikiya Tanaka

16:40－17:00 (OB13) Hydrometallurgical Recovery and Separation of Vanadate and Chromate From Slags by Solvent Extraction at Highly Alkaline pH
Jan J. Weigand, Man Feng, Marco Wenzel, Hao Du, Yi Zhang

17:00－17:20 (OB14) Selective Recovery of Molybdenum from Rhenium Containing Model Solutions by Solvent Extraction with Organophosphorus and Oxime Reagents
Toni Helbig, Christiane Scharf

17:20－17:40 (OB15) Solvent Extraction in Different Lithium Recovery Processes
Sami Virolainen, Mojtaba Fallah Fini, Antero Laitinen, Tuomo Sainio

17:40－18:00 (OB16) Developing Solvent Extraction for the Future of the Energy Industry.
Michael Hutton-Ashkenny, Chris Panaou

New Extractants and Solvent

Conference Room C - KAIHO (3F)

Chairpersons: Keisuke Ohto, Marco Wenzel

10:20－10:50 Keynote Lecture (KL3)
Cyclopentyl Methyl Ether as a Diluent or an Extractant in Metal Extraction System
Tatsuya Oshima, Takao Koyama, Yoshinari Baba, Noriyasu Otsuki

10:50－11:10 (OC01) Intensified PGM Solvent Extraction: Exploitation of Extraction Mechanism
Ross J Gordon

11:10－11:30 (OC02) Extraction of Pt(IV) from HCl Solutions with Amide and Urea Substituted Extractants
Yuki Ueda, Shintaro Morisada, Hidetaka Kawakita, Kentaro Ohmi, Mitsuharu Fujita, Jan J. Weigand, Kojiro Shimojo, Hirochika Naganawa, Keisuke Ohto

11:30－11:50 (OC03) Extraction Separation of Rhodium(III) from Hydrochloric Acid Solutions with Trioctylammonium-based Ionic Liquids
Shoichi Katsuta, Kanshi Kawahara, Junko Tamura

11:50－12:10 (OC04) Amino-substituted Ionic Liquids for Selective and Reversible Extraction/Back-Extraction of Platinum-Group Metal Ions from Aqueous Solutions
Kiyoshi Kanie, Su Ma, Kenji Funaki, Atsushi Miyazaki, Atsushi Muramatsu

Room ORCHARD (2F)・FOUNTAIN (2F)

12:10－13:30 Lunch Break

Conference Room C - KAIHO (3F)

Chairpersons: Shoichi Katsuta, Maria Boltoeva

13:30－13:50 (OC05) Extraction and Detection of Cd Ions Using Fluorescence Macrocyclic Receptor into Ionic Liquids
Kojiro Shimojo, Hiroyuki Okamura, Hisanori Imura, Hirochika Naganawa

13:50－14:10 (OC06) Synergistic Extraction of Uranium(VI) with TODGA into Molecular Solvents Induced by Ionic Liquid
C. Gaillard, M. Boltoeva, A.N. Turanov, V.K. Karandashev, V. Mazan, Sylvia Georg

14:10－14:30 (OC07) Synergistic Ionic-Liquid Extraction for the Selective Separation of Lanthanoids(III)
Hiroyuki Okamura, Masayoshi Mizuno, Naoki Hirayama, Kojiro Shimojo, Hirochika Naganawa, Hisanori Imura

14:30－14:50 (OC08) Extraction of Rare Earths with a Bifunctional Ionic Liquid
James E. Quinn, Karin H. Soldenhoff, Geoffrey W. Stevens

14:50－15:10 (OC09) Ionic Liquid as Diluent in Solvent Extraction: Structural Effects on Extraction
Sandrine Dourdain, Tamir Sukhbaatar, Guilhem Arrachart, Thomas Zemb, Stéphane Pellet-Rostaing

15:10－15:30 (OC10) Selective Recovery of Zn(II) from Multielemental Acidic Chloride Solution with Hydrophobic Pyridine Derivates
Aleksandra Wojciechowska, Karolina Wieszczycka, Irmina Wojciechowska, Przemysław Aksamitowski

Room TENJU (4F)・TENYO (4F)

15:30－16:00 Coffee Break

Conference Room C - KAIHO (3F)

Chairpersons: Kojiro Shimojo, Sandrine Dourdain

16:00－16:20 (OC11) Bismalonamide Ligands for Solvent Extraction of Trivalent Lanthanides
Mikhail S. Tyumentsev, Mark R.StJ. Foreman, Britt-Marie Steenari, Christian Ekberg

16:20－16:40 (OC12) Specific Lanthanide Separation Based on Minute Ionic Size Recognition Using O, N-Hetero Donor Ligand
Tohru Kobayashi, Shinichi Suzuki, Hideaki Shiwaku, Tsuyoshi Yaita

16:40－17:00 (OC13) Intra-Group Separation Properties of Lanthanide(III) Ions with Multidentate Amide-Type Compounds
Hirokazu Narita, Mikya Tanaka, Kojiro Shimojo, Tsuyoshi Yaita

17:00－17:20 (OC14) "SE-FLECX"-Project: Development of New Extractants for Rare Earths
A. Balinski, A. Bauer, K. Schmeide, A. Mansel, A. Jäschke, F. Glasneck, B. Kersting, J. Krause, P. Atanasova, C. Scharf

17:20－17:40 (OC15) Metal Extractions by Diglycolamide-Type Tridentate Ligands
Yuji Sasaki, Keisuke Morita, Morihisa Saeki, Shugo Hisamatsu, Kazuharu Yoshizuka

17:40－18:00 (OC16) Effect of Amide Group and Ether Chain in Diglycolamic Acid-Type Extractants on Extraction Performance
Tsuyoshi Sugita, Iori Fujiwara, Hiroyuki Okamura, Tatsuya Oshima, Yoshinari Baba, Hirochika Naganawa, Kojiro Shimojo

Nuclear Fuel Application

Conference Room D - ZUIYO (3F)

Chairpersons: Andreas Geist, Kenji Takeshita

10:20－10:50 Keynote Lecture (KL4)
Solvent Extraction Process for Reprocessing and Minor Actinides Separation Using CHON Ligands
Tatsuro Matsumura, Yasutoshi Ban, Hideya Suzuki, Yasuhiro Tsubata, Shinobu Hotoku, Nao Tsutsui, Asuka Suzuki, Tomohiro Toigawa, Tatsuya Kurosawa, Mitsunobu Shibata, Tomohiro Kawasaki, Sho Ishii

10:50－11:10 (OD01) The Extraction of An(III), Ln(III) and HNO_3 by a TODGA Solvent: Equilibrium Modelling
Andreas Geist, Giuseppe Modolo, Udo Müllich, Robin Taylor, Daniel Whittaker, Andreas Wilden, David Woodhead

11:10－11:30 (OD02) Influence of Gamma Radiation on Extraction Systems Based on Diglycolamides and Water Soluble SO_3-Ph-BTP Such the Euro-GANEX Process
Hitos Galán, Ana Núñez, Ivan Sánchez, Denise Munzel, Udo Müllich, Joaquín Cobos, Andreas Geist

11:30－11:50 (OD03) Progress Towards Reference Routes for Recycling Actinides in Future Nuclear Fuel Cycles
R. Taylor, S. Bourg, C. Boxall, M. Carrott, A. Geist, B. Hanson, R. Malmbeck, G. Modolo, C. Rhodes, M. Sarsfield, C. Sharrad, T. Tinsley, D. Whittaker, A. Wilden

11:50－12:10 (OD04) Methods for Enhancing the Rates of Dissociation of the *f*-Element / Aminopolycarboxylate Complex for Efficient Differentiation of Trivalent Actinides from Trivalent Lanthanides in the ALSEP Process
Peter R. Zalupski, Colt R. Heathman, Travis S. Grimes, Santa Jansone-Popova

Room ORCHARD (2F)･FOUNTAIN (2F)

12:10－13:30 Lunch Break

Conference Room D - ZUIYO (3F)

Chairpersons: Tatiana G. Levitskaia, Giuseppe Modolo

13:30－13:50 (OD05) ALSEP Chemistry: Fundamentals and Applied Testing
Tatiana G. Levitskaia, Emily L. Campbell, Vanessa E. Holfeltz, Gabriel B. Hall, Gregg J. Lumetta

13:50－14:10 (OD06) Demonstration of an Advanced TALSPEAK Process for Actinide(III)/Lanthanide(III) Separation
Giuseppe Modolo, Andreas Wilden, Gregg J. Lumetta, Tatiana G. Levitskaia, Amanda J. Casella, Gabriel B. Hall, Jack Law, Andreas Geist

14:10－14:30 (OD07) Effect of Element Concentration on Distribution Ratio in MA Recovery Process Based on Solvent Extraction Method for Resource-Renewable Boiling Water Reactor
Daisuke Watanabe, Yuko Kani, Akira Sasahira, Kuniyoshi Hoshino

14:30－14:50 (OD08) Study on the Formation of Microemulsions in the Extraction of Lanthanides by Purified Cyanex 301
Taoxiang Sun, Jing Chen

14:50－15:10 (OD09) Mutual Separation of Platinum Group Metals in HNO_3 Using Amide-Type Extractants
Michal Cibula, Yusuke Inaba, Kenji Takeshita, Hirokazu Narita

15:10－15:30 (OD10) Development of Simultaneous Adsorption System of PGMs and Mo from High-level Liquid Waste
Kenji Takeshita, Yusuke Inaba, Hideharu Takahashi, Jun Onoe, Hirokazu Narita

Room TENJU (4F)・TENYO (4F)

15:30－16:00 Coffee Break

Conference Room D - ZUIYO (3F)

Chairpersons: Takehiko Tsukahara, Mikael Nilsson

16:00－16:20 (OD11) Phase Transition-Based Direct Solvent Extraction of Target Metal Ions from Aqueous Solutions
Takehiko Tsukahara, Haruka Tateno, Kaname Saga, Ki Chul Park

16:20－16:40 (OD12) Cesium Extraction by Calix-Mono-Crown-Ethers: Extractant and Solvent Effects
Marie Simonnet, Yuji Miyazaki, Shinichi Suzuki, Tsuyoshi Yaita

16:40－17:00 (OD13) Uranium Filtration Adsorption by Composite Metal-Organic Frameworks Modified Membranes
Boxuan Yu, Gang Ye, Jing Chen

17:00－17:20 (OD14) Quantifying TBP Dimers and Trimers in Alkane Solutions via Simulations and Experiments
Quynh N. Vo, Jaclynn L. Unangst, Liem X. Dang, Hung D. Nguyen, Mikael Nilsson

17:20－17:40 (OD15) Kinetics of Uranium Extraction By TBP 30% - Exploitation of New Measurements Using Microsystem Device
Binh Dinh, Christian Sorel, Manuel Miguirditchian, Jean-Philippe Jasmin, Clarisse Mariet

17:40－18:00 (OD16) Chemistry of Ruthenium in the PUREX Process: New Insight on the Speciation in the Organic Phase TBP-TPH
Charbonnel Marie-Christine, Lefebvre Claire, Dumas Thomas, Miguirditchian Manuel, Pier Lorenzo Solari

November 7 Tuesday

Conference Room TENZUI (4F)

Chairperson: Hans-Jörg Bart

9:00－ 9:50 Plenary Lecture (PL2)
Solvent Selection and Design for Liquid-Liquid Extractions in Biorefineries
Boelo Schuur, Xiaohua Li, Ehsan Reyhanitash, Lisette M.J. Sprakel, Sascha R.A. Kersten

Room TENJU (4F)・TENYO (4F)

9:50－10:10 Coffee Break, sponsored by JX Nippon Mining & Metals Corporation

Metal Recycling

Conference Room A - TENRAN (4F)

Chairpersons: Martina Petranikova, Mikiya Tanaka

10:20－10:50 Keynote Lecture (KL5)
Precious Metals Recovery with Macrocyclic Compounds Using Microreactor Extraction System
Keisuke Ohto, Yehezkiel S. Kurniawan, Ramachandra R. Sathuluri, Masatoshi Maeki, Wataru Iwasaki, Shintaro Morisada, Hidetaka Kawakita, Masaya Miyazaki

10:50－11:10 (OA15) Hydrometallurgical Metal Recovery from Magnetocaloric Materials
Cristian Tunsu, Martina Petranikova, Christian Ekberg

11:10－11:30 (OA16) The Rare Earth Elements Removal from Leaching Solution of Ni-MH Battery
Masatoshi Takano, Satoshi Asano

11:30－11:50 (OA17) Recovery of Neodymium and Dysprosium from NdFeB Magnets Using Ionic Liquid Technology
Sofía Riaño, Koen Binnemans

11:50－12:10 (OA18) Solvent Extraction of Ce(III), Pr(III), Nd(III) Mixtures with 2-Ethylhexyl Phosphoric Acid-2-Ethylhexyl Ester (P507) by Membrane Dispersion Micro-Extractor
Zhuo Chen, Fu-Ning Sang, Jian-Hong Xu, Guang-Sheng Luo, Yun-Dong Wang

Room ORCHARD (2F)・FOUNTAIN (2F)

12:10－13:30 Lunch Break

Room TENJU (4F)・TENYO (4F)

Chairperson: Kazuharu Yoshizuka

13:30－15:30 Poster Session (program shown in separated pages)

15:30－16:00 Coffee Break, sponsored by JX Nippon Mining & Metals Corporation

Conference Room A - TENRAN (4F)

Chairpersons: Damien Bourgeois, Keisuke Ohto

16:00－16:20 (OA19) Hydrometallurgical Recovery of Lanthanum and Cerium from Spent FCC Catalysts by Solvent Extraction
Marco Wenzel, Kathleen Schnaars, Karsten Gloe, Klaus Kretschmer, Yen Phan, Dang Thanh Tung, Jan J. Weigand

16:20－16:40 (OA20) Selectivity Improvement in Extraction of Scandium from Bauxite Residue by Blending Organics
B. Yagmurlu, C. Dittrich, B. Friedrich

16:40－17:00 (OA21) Recovery of Rare Earth Elements from Mine Tailings
Martina Petranikova, Cristian Tunsu, Christian Ekberg

17:00－17:20 (OA22) Evaluation of Several Diluents in Metal Recovery Solvent Extraction Processes
Rendert Jan (Rene) Wiersma

17:20－17:40 (OA23) Safe Sustainable Solvents for SX
Daniel Bien, Wen-Pei Lim

17:40－18:00 (OA24) Selective Stripping of Neptunium and Plutonium from A PUREX Solvent for Applications in ^{238}Pu Recovery
Daniel Whittaker, Mark Sarsfield, Robin Taylor, Dave Woodhead, Mike Carrott, Chris Mason, Hannah Colledge, Bliss McLuckie, Tamara Griffiths, Catherine Campbell, Louise Walton, Josh Holt, Chris Maher

Hydrometallurgy

Conference Room B - TENGYOKU (4F)

Chairpersons: Michiaki Matsumoto, Shafiq Alam

10:20－10:50 Keynote Lecture (KL6)
Equilibrium and Modelling Between Alamine and Uranium in Sulphuric Medium with Complex Solution Chemistry
Kathryn A. Mumford, Yong Wang, Kathryn H. Smith and Geoffrey W. Stevens

10:50－11:10 (OB17) Selective Extraction of Lithium from Alkaline Brine using HBTA-TOPO Synergistic Extraction System
Licheng Zhang, Lijuan Li, Dong Shi, Xiaowu Peng, Fugen Song

11:10－11:30 (OB18) Synthesis of Micro-Flower Morphology Li_2CO_3 Under Double Extraction Using CO_2 As Carbon Source
Lang Li, Jinsong Sui, Wei Qin

11:30－11:50 (OB19) Lithium Solvent Extraction (LiSX™) Process Evaluation Using Tenova Pulsed Columns (TPC)
Jonathan Lipp

Room ORCHARD (2F)・FOUNTAIN (2F)

12:10－13:30 Lunch Break

Room TENJU (4F)・TENYO (4F)

Chairperson: Kazuharu Yoshizuka

13:30－15:30 Poster Session (program shown in separated pages)

15:30－16:00 Coffee Break, sponsored by JX Nippon Mining & Metals Corporation

Environmental Application

Conference Room B - TENGYOKU (4F)

Chairpersons: Koichiro Shiomori, Hiroshi Umakoshi

16:10－16:40 Keynote Lecture (KL7)
Supercritical Fluid Enhanced Microextraction of Octachlorodibenzo-p-dioxin with the Ionic Liquid [hmim][[FAP] as the Extractant
Esteban Quijada-Maldonado, Ady Giordano, Bárbara Perez, Kevin Caro, Julio Romero

16:40－17:00 (OB22) Uranium Adsorption from Seawater by Polydopamine Inspired Magnetic Sorbents
Gang Ye, Fengcheng Wu, Jing Chen

17:00－17:20 (OB23) Liquid−Liquid Equilibrium in the Ternary System of Water + Phenol + Cumene at 298.2 K
Javad Saien, M. Razi Asrami

17:20－17:40 (OB26) Application of Electro-Coaugulation for As-Enriched Groundwater in the Mekong River Area
Yongtae Kim, Suyeon Lee, Kyoung-Woong Kim

New extractants and solvent

Conference Room C - KAIHO (3F)

Chairpersons: Alexandre Chagnes, Tatsuya Oshima

10:10－10:30 (OC17) Investigation of the Extraction Properties of New Cationic Exchangers for the Selective Recovery of Cobalt, Nickel and Manganese

from Acidic Chloride Solution
Kateryna Omelchuk, Mansour Haddad, Alexandre Chagnes

10:30－10:50 (OC18) Diphasic Acid-Basic Properties of Neworganophosphorus Extractants
Kateryna Omelchuk, Moncef Stambouli, Alexandre Chagnes

10:50－11:10 (OC19) Extraction of Phenol from Wastewater Using Chemical Extractants
Jessica Vovers, Kathryn H. Smith, Yuka Kobayashi, Alexandra Dunens, Tim Bowser, Geoff W. Stevens

11:10－11:30 (OC20) Bio-derived Solvents for Extraction of Natural Pharmaceutical Products
Jessica Vovers, Kathryn H. Smith, Yuka Kobayashi, Alexandra Dunens, Tim Bowser, Geoff W. Stevens

11:30－11:50 (OC21) 2-Methyltetrahydrofuran as a Green Alternative Solvent for the Extraction of Levulinic Acid from Dilute Aqueous Solution
Antero Laitinen, Karri Penttilä, Jouni Syrjänen, Juha Kaunisto

11:50－12:10 (OC22) Hydrodynamics of Two-Phase Ionic Liquid Solvent Systems in Countercurrent Chromatography for Metal Separations
Vicky Lange, Panagiota Angeli, and Leslie Brown

Room ORCHARD (2F)・FOUNTAIN (2F)

12:10－13:30 Lunch Break

Room TENJU (4F)・TENYO (4F)

Chairperson: Kazuharu Yoshizuka

13:30－15:30 Poster Session (program shown in separated pages)

15:30－16:00 Coffee Break, sponsored by JX Nippon Mining & Metals Corporation

Conference Room C - KAIHO (3F)

Chairpersons: Hiroyuki Okamura, Minako Iwakuma

16:00－16:20 (OC23) Application of Microgels for Switchable Phase Separation Behavior to Improve Extraction Processes
Miriam Faulde, Andreas Jupke

16:20－16:40 (OC24) Determination of Nanoparticle Influence on Mass Transfer In Oil-In-Water Systems
Marc Petzold, Susanne Röhl, Dmitrij Stehl, Lena Hohl, Regine von Klitzing, Matthias Kraume

Plant and Equipment Design

Conference Room C - KAIHO (3F)

Chairpersons: Michiaki Matsumoto, Susumu Nii

16:50－17:20 Keynote Lecture (KL8)
Apparatus Design for L, L-Extraction with Heterogeneously Catalyzed Reaction
Daniela Painer, Annika Grafschafter, Andreas Toth, Matthäus Siebenhofer

17:20－17:40 (OC25) Standardized Settling Cell to Characterize Liquid-Liquid Dispersion
David Leleu, Andreas Pfennig

17:40－18:00 (OC26) Solvent Extraction Design for Highly Viscous Systems
Maria C. Quaresima, Markus Schmidt, Andreas Pfennig

Nuclear Fuel Application

Conference Room D - ZUIYO (3F)

Chairpersons: Shinichi Suzuki, Sylvain Costenoble

10:10－10:30 (OD17) A Novel Micro-Emulsion Phase Transition: The Case of Third Phase Formation in Spent Nuclear Fuel Reprocessing
Junju Mu, Ryuhei Motokawa, Andrew J. Masters

10:30－10:50 (OD18) Development of a New Solvent Extraction Process for the Multi-Recycling of Uranium and Plutonium from Spent Nuclear Fuels
Manuel Miguirditchian, Christian Sorel, Pauline Moeyaert, Xavier Hérès, Sylvain Costenoble, Stéphane Grandjean, Stéphanie De Sio

10:50－11:10 (OD19) Investigation under Ionizing Radiation Of Pu(IV) - Monoamide Complexes in Solution
Laurence Berthon, Jessica Drader, Nathalie Boubals, Dominique Guillaumont, Georges Saint-Louis, Béatrice Camès, Philippe Guilbaud

11:10－11:30 (OD20) Lab-Scale Implementation of a Next-Generation Uranium And Plutonium Separation and Purification Process from Spent Nuclear Fuel Using Monoamide Solvent
Sylvain Costenoble, Marie-Jordane Bollesteros, Frédéric Antegnard, Christian Sorel, Vincent Vanel, Marc Montuir, Manuel Miguirditchian, Xavier Hérès, Valérie Boyer-Deslys, Stéphane Grandjean

11:30－11:50 (OD21) Intensified Uranium(VI) Extraction Using Confined Impinging-Jets Cells
Dimitrios Tsaoulidis, Eduardo Garciadiego Ortega, Panagiota Angeli

11:50－12:10 (OD22) Effect of O/A Ratio on Extraction Performance oaf Centrifugal

Contactor
Atsushi Sakamoto, Yuichi Sano, Masayuki Takeuchi, Masayuki Watanabe, Kenji Koizumi

Room ORCHARD (2F)・FOUNTAIN (2F)

12:10－13:30 Lunch Break

Room TENJU (4F)・TENYO (4F)

Chairperson: Kazuharu Yoshizuka

13:30－15:30 Poster Session (program shown in separated pages)

15:30－16:00 Coffee Break, sponsored by JX Nippon Mining & Metals Corporation

Conference Room D - ZUIYO (3F)

Chairpersons: Yuji Sasaki, Charlotte Parrington

16:00－16:20 (OD23) Unique Separation Operation Based on Extraction Kinetics by Liquid-Liquid Countercurrent Centrifugal Extractor with Taylor Vortices
Masahiko Nakase, Yuto Matsuzawa, Kenji Takeshita

16:20－16:40 (OD24) Industrial Application of a Plate-Type Coalescer for Improved Separation Rate of Ultra-Fine Liquid-Liquid Dispersions
Charlotte Parrington, Bruce Hanson

Membrane Extraction and Liquid Membrane

Conference Room D - ZUIYO (3F)

Chairperson: Masahiro Goto

16:50－17:20 Keynote Lecture (KL9)
The Potential of a New Generation of Crosslinked Polymer Inclusion Membranes with Aliquat 336 as Their Extractant for Thiocyanate Separation
Yukie O'Bryan, Yen B. Truong, Robert W. Cattrall, Ilias L. Kyratzis, Spas D. Kolev

17:20－17:40 (OD25) The Use of Cyphos® IL 101-Based Polymer Inclusion Membranes (PIMs) for the Extraction and Separation Of V(V) from Sulfate Solutions
M. R. Yaftian, M. I. G. S. Almeida, R. W. Cattrall, S. D. Kolev

17:40－18:00 (OD26) A Comparison of Commercial and Purified LIX84I in Polymer Inclusion Membranes (PIMs) for the Transport of Cu(II)
Duo Wang, Robert W. Cattrall, Jie Li, Maria Ines G. S. Almeida, Geoff W. Stevens, Spas D. Kolev

November 8 Wednesday

Conference Room TENZUI (4F)

Chairperson: Yu Komastu

9:00－ 9:50 Plenary Lecture (PL3)
Challenges of Solvent Extraction Column Performance Prediction and Design
Geoffrey W Stevens, Lachlan Mason, Dalton Harvie, Heng Yi, Weiyang Fei

9:50－10:30 Award Session

Room TENJU (4F)･TENYO (4F)

10:30－10:50 Coffee Break

Metal Recycling

Conference Room A - TENRAN (4F)

Chairpersons: Marco Wenzel, Narita Hirokazu

10:50－11:10 (OA25) Liquid-Liquid Extraction of Critical Metals from HCl Leach Liquors of A Nickel-Based Superalloy
Rajiv Ranjan Srivastava, Min-Seuk Kim, Tae Gyun Kim, Jae-chun Lee

11:10－11:30 (OA26) Pd Recovery from WEEE: towards a Complete Process Based on Malonamides
Damien Bourgeois, Rémi Poirot, Régis Mastretta, Daniel Meyer

11:30－11:50 (OA27) Recovery of Palladium in High-Viscous Polymer Solution Using Precipitation of Water-Soluble Polymer
Hidetaka Kawakita, Takafumi Kajiwara, Shintaro Morisada, Keisuke Ohto

11:50－12:10 (OA28) Extraction of Ruthenium from Nitrite Solutions
Sergei Temerov, Svetlana Plechkina, Nadezhda Lebedeva

Room ORCHARD (2F)･FOUNTAIN (2F)

12:10－13:30 Lunch Break

Shusen-no-Mori, Udo Shrine

13:30－17:00 Excursion

Conference Room TENZUI (4F)

18:00－21:00 Banquet

Environmental Application & Oil Purification and Refining

Conference Room B - TENGYOKU (4F)

Chairpersons: Ryuichi Egashira, Kaoru Ohe

10:50－11:10 (OB24) Efficient Biobased Chemical Production from Wastewater via Solvent Extraction and Intensified Solvent Regeneration
Daniela Painer, Susanne Lux, Matthäus Siebenhofer

11:10－11:30 (OB25) Intensification of Acetic Acid Esterification in Dilute Aqueous Solution through Liquid-Liquid Extraction and Emulsification
Andreas Toth, Robert Macher-Ambrosch, Susanne Lux, Matthäus Siebenhofer

11:30－11:50 (OB27) Solvent Extraction Process for Concentration and Dehydration of Bioethanol Enrico Gianino, Tomonori Masuda, Daniela Nikolic, Hiroaki Habaki, Ryuichi Egashira

Room ORCHARD (2F)･FOUNTAIN (2F)

12:10－13:30 Lunch Break

Shusen-no-Mori, Udo Shrine

13:30－17:00 Excursion

Conference Room TENZUI (4F)

18:00－21:00 Banquet

Plant and Equipment Design

Conference Room C - KAIHO (3F)

Chairpersons: Sebastian Maaß, Susumu Nii

10:50－11:10 (OC27) Real Time Monitoring of Drop Size Distributions and Phase Inversion in Mixer-Settler Applications
Sebastian Maaß, Jörn Emmerich, Matthias Kraume

11:10－11:30 (OC28) Centrifugal Liquid-Liquid Separation - Experimental Investigation and Simulation of Single Drops and Droplet Swarms
Armin Eggert, Stephan Sibirtsev, Andreas Jupke

11:30－11:50 (OC29) Efficient Multi-Phase Axial Mixing Simulation for a Rotating Disc Contactor
Hang Chen, Ze Sun, Xingfu Song, Jianguo Yu

11:50－12:10 (OC30) Application of X-ray Computed Tomography for Flow Visualization in Packed Extraction Columns
Thilo Kögl, Wolfgang Arlt

Room ORCHARD (2F)･FOUNTAIN (2F)
12:10－13:30 Lunch Break

Shusen-no-Mori, Udo Shrine
13:30－17:00 Excursion

Conference Room TENZUI (4F)
18:00－21:00 Banquet

Membrane Extraction and Liquid Membrane

Conference Room D - ZUIYO (3F)
Chairperson: Hiroshi Umakoshi, Michiaki Matsumoto

10:50－11:10 (OD27) Processing of a Rare Earth Element Concentrate by Hollow Fibre Supported Liquid Membrane Extraction
Kerstin M. Forsberg, Raquel Rodriguez Varela, Joaquin Martinez, Lars Kloo, Åke C. Rasmuson

11:10－11:30 (OD28) Recovery of Valuable Compounds from Spent Pickling Solutions by the Combination of Liquid Membranes and Electro-Membrane Technologies
Eugenio Bringas, María F. San Román, Inmaculada Ortiz

11:30－11:50 (OD29) Supported Liquid Membrane Permeation for Selective Lactic Acid Recovery
Marlene Kienberger, Nuttakul Mungma, Matthäus Siebenhofer

11:50－12:10 (OD30) Use Self-Organizing Platform as a Sophisticated Solvent Extraction System: From "Extractive Reaction" to "Recognitive Conversion"
Hiroshi Umakoshi, Keishi Suga, Yukihiro Okamoto

Room ORCHARD (2F)･FOUNTAIN (2F)
12:10－13:30 Lunch Break

Shusen-no-Mori, Udo Shrine
13:30－17:00 Excursion

Conference Room TENZUI (4F)
18:00－21:00 Banquet

November 9 Thursday

Conference Room TENZUI (4F)

Chairperson: Satoshi Tsukahara

9:00－ 9:50 Plenary Lecture (PL4)
Application of Magnetophoresis in Solvent Extraction Systems
Hitoshi Watarai

Room TENJU (4F)・TENYO (4F)

9:50－10:20 Coffee Break

Solid Liquid Extraction

Conference Room A - TENRAN (4F)

Chairpersons: Hidetaka Kawakita, Liangrong Yang

10:20－10:40 (OA29) Comparison of Hydrodynamic Performance of Pulsed Solvent Extraction Columns with Tenova Pulsed Column Kinetics Internals (TPC-KI) and Standard Disc and Doughnut Internals
Wen Li, Yong Wang, Kathryn A. Mumford, Kathryn H. Smith, Geoffrey W. Stevens

10:40－11:00 (OA30) Solvent Extraction of Electrolyte Compounds in the Recycling of Lithium Ion Batteries
Paul Haas, Stefan Pfeifer, Stephan Scholl

11:00－11:20 (OA31) Novel Superparamagnetic Solid Extraction Technology and Its Separation Intensification for Bioseparation and Metal Ions Removal
Liangrong Yang, Xiangfeng Liang, Jiemiao Yu, Huifang Xing, Huizhou Liu

Conference Room TENZUI (4F)

11:40－12:00 Closing Remark

Award session of JASE

Conference Room B - TENGYOKU (4F)

Chairpersons: Masahiro Goto, Kazuharu Yoshizuka

10:20－11:00 (AL1) Fundamental and Applied Studies of Solvent Extraction for Hydrometallurgy Including Metal Recycling
Mikiya Tanaka

11:00－11:20 (AL2) Studies on Processing of Advanced Separation Systems of Metal Ions with Solvent Extraction
Syouhei Nishihama

Conference Room TENZUI (4F)

11:40－12:00 Closing Remark

Plant and Equipment Design

Conference Room C - KAIHO (3F)

Chairpersons: Hirochika Naganawa, Michiaki Matsumoto

10:20－10:40 (OC31) Multiphase Loop-Reactor with In-Situ Extraction: CFD Simulation and 2D Compartment Modeling with Population Balances
Benedikt Weber, Maximilian von Campenhausen, Andreas Jupke

10:40－11:00 (OC32) New Apparatus, “Emulsion-Flow” Extractor, for Liquid-Liquid Extraction
Hirochika Naganawa, Nobuyuki Yanase, Tetsushi Nagano

11:00－11:20 (OC33) Design and Scale Up of the Taylor-Couette Disc Contactor
Annika Grafschafter, Matthäus Siebenhofer

Conference Room TENZUI (4F)

11:40－12:00 Closing Remark

Poster Session

November 7 Tuesday

Room TENJU (4F)・TENYO (4F)

Chairperson: Kazuharu Yoshizuka

13:30－15:30 Poster Session

Fundamentals and Analytical Chemistry

P01 Measurement of the Aggregates of Anionic Porphyrin with Cationic Surfactants at The Supercritical Carbon Dioxide/Water Interface by total Internal Reflection Spectroscopy
Akira Ohashi, Masaki Endo, Kouhei Yamagishi, Haeng-Boo Kim

P02 Determination of the Structure in Organic Solution Combining Experimental Characterization and Molecular Dynamic Simulation
Amaury Paquet, Laurence Berthon, Philippe Guilbaud, Olivier Diat, Nathalie Boubals

P03 Extraction from Frozen Aqueous Phase for Enhancing Efficiency and Probing Impact of Freezing on Solute Distribution
Kensuke Yanagisawa, Makoto Harada, Tetsuo Okada

P04 Ion Transfer Reaction at The Interface Between Water and A Fluorous Solvent 1,1,1,2,3,4,4,5,5,5-Decafluoropentane
Kohei Uematsu, Hajime Katano, Yasuhiro Kuroda, Toshiyuki Osakai

P05 Neutron Polarization Analysis for Biphasic Solvent Extraction Systems
Ryuhei Motokawa, Hitoshi Endo

P06 Frame-Structural Effect of Ligands on Separation Behavior of Lanthanides in Biphasic Extraction System
Tsuyoshi Yaita, Shinichi Suzuki, Toru Kobayashi, Hideaki Shiwaku

P07 Homogeneous Liquid-Liquid Extraction of Metal Ion Utilizing Upper Critical Solution Temperature of Propylene Carbonate
Yuka Kobayashi, Hirotoshi Nakamura, Shin-ichi Kawano, Syunichi Oshima, Yujiro Watanabe, Geoff W. Stevens, Yu Komatsu, Kaoru Fujinaga

P08 Kinetic Study on The Preparation of KH_2PO_4 in a Microfluidic Device with a Reactive Extraction Process
Fang Zhao, Yangcheng Lu, Kai Wang, Guangsheng Luo

P09 Analysis of Brownian Motions of Individual Spherical Microparticles Trapped at Various Organic/Aqueous Interfaces
Airi Tomida, Satoshi Tsukahara

Hydrometallurgy

P10 Effective Parameters in Extraction and Protonation of Sulfuric Acid by Trioctylamine (TOA) as Organic Extractant
Aidin Heidari, Shahryar Shahini, Eskandar K. Alamdari, and Davoud H. Fatmehsari

P11 Recovery of Scandium from Zirconium Waste Water by the O,O-Bis(2-Ethylhexyl) Hydrogen Thiophosphate Extraction System
Kaoru Fujinaga, Yasuyuki Nakai, Yasushi Nakajima, Syunichi Oshima, Yujiro Watanabe, Yu Komatsu

P12 Selective Extraction of Scandium from Other REEs Using Binary Extractant of PC88A and Versatic10 from Nitrate Media
Maha Sharaf, Wataru Yoshida, Fukiko Kubota, Masahiro Goto

P13 The Effect of Impeller Speed and Flow Ratio on Liquid-Liquid Dispersion in A Mixer-Settler
Qiao Tang, Sishi Ye, Yundong Wang

P14 Synthesis of Imidazole and Methyl-Pyrazole Based Pyridine Ligands and Their Use as Extractants for Nickel(II) and Copper(II).
Robert C. Luckay, Brendan H. Pearce, Hezron F. Ogutu

P15 Application of Solvent Impregnated Resin for Rare-Earth Elements Extraction from Sulfuric Acid Multicomponent Technological Solutions
Sergey Kirillov, Vladimir Rychkov, Vladimir Baulin, Evgenii Kirillov, Grigory Bunkov, Maxim Botalov, Denis Smyshlyaev

P16 Separation Behavior of Scandium(III) from Zirconyl(II) by Using Packed Column Extractor
Taiki Uchida, Yasushi Nakajima, Susumu Nii, Syunichi Osima, Yujiro Watanabe, Yu Komatsu, Kaoru Fujinaga

P17 Recycling A Flat Panel Display - Hydrometallurgical Perspective
Teodora Retegan, Cristian Tunsu, Jiaxu Yang

P18 Fluid Dynamics and Mass Transfer of Single Droplets In TBP/MIBK/$FeCl_3$ Salt Lake Brine Systems
Wei Xiang, Wei Qin

P19 A Simple Preparation Method for Rare-Earth Phosphate Nano-Materials Using an Ionic Liquid-Driven Supported Liquid Membrane System
Yang Fan, Zhao Panpan, Liao Qiuxia, Zhao Zhigang, Zhang Yang

P20 DGA-Graphene Adsorbent Applied in The Purification of Rare Earth in SPE
Yang Zhang, Zhigang Zhao, Fan Yang,Qiuxia Liao

P21 Recycling and Separation of Rare Earth Resources Lutetium from LYSO Scraps Using the Diglycol Amic Acid and Ionic Liquid Impregnated XAD Resin
Zhigang Zhao, Yang Zhang, Fan Yang

P22 Recovery and Separation of Associated Thorium from Rare Earth Resources and Preparation of High Purity Thorium Products
Zhifeng Zhang, Guolong Wu, Yanling Li, Wuping Liao

P23 Enhanced Extraction of Nickel from a Concentrated Nitrate Aqueous Matrix Using LIX 63 / Versatic 10 / Nonyl-4PC
Michael Hutton-Ashkenny, Keith R. Barnard, Don Ibana

P24 Hydraulic and Mass-transfer Performance of XT-22 type Annular Centrifugal Contactor for The Solvent Extraction of Boron by A1416 in Kerosene
Xiaowu Peng, Lijuan Li, Dong Shi, Licheng Zhang, Feng Nie, Fugen Song

P25 Extraction of Sulfuric Acid by Trioctyl Amine from Aqueous Solution
Soroush Parvizi, Samira Mahmoodi, Milad Rahimian, Eskandar Keshavarz Alamdari

P26 Europium Separation by Solvent Extraction from A Heavy Rare Earth Elements Solution.
Ysrael Marrero Vera, Frank da Silva Braga, Luciana Amaral Seruff

P27 Design and Syntheses of Aminophosphonate Extractants for The Recovery and Separation of Cerium and Thorium from Bastnaesite Leaching
Wuping Liao, Youcai Lu, Shengting Kuang, Haiqin Wei, Zhifeng Zhang, Yanling Li, Guolong Wu

Metal Recycling

P28 Slug Flow Extraction and Separation of Nickel and Cobalt with D2EHPA
Mikiya Hinoue, Hayato Tokumoto, Akira Matuoka, Koji Noshiki, Akinori Muto

P29 Flexible and Efficient Hydrometallurgical Recycling of Li-Ion Batteries of Different Chemistry
Gabriele Lombardo, Martina Petranikova, Burcak Ebin, Britt-Marie Steenari, Christian Ekberg

P30 Separation of Cu-Ni from Ammoniacal Solutions Using LIX 84-I and Organophosphorus Esters: Antagonistic Effect on Ni Extraction
Jae-chun Lee, Minji Jun, Rajiv R. Srivastava, Min-seuk Kim

P31 Separation of Rare-Earths from Neodymium Magnet Leachate; Development of New Environmentally Friendly Processes
Marino Gergorić, Teodora Retegan, Britt-Marie Steenari, Christian Ekberg

P32 Solvent Extraction of Rhodium from Tin(II) Chloride Solutions with Tri-N-Octylamine
Akira Ishikawa, Takeshi Tanishige, Akiyoshi Hayashi, Tasuma Suzuki, Masakazu Niinae

P33 Selective Extraction of Precious Metals with a Novel Amic Acid Extractant for Their Recovery from Waste Mobile Phones
Riho Kouno, WataruYoshida, Kubota Fukiko, Masahiro Goto

P34 Selective Extraction Separation of Indium and Gallium with Thiol Derivative
Shintaro Kanemaru, Rieko Miura, Megumi Tokumaru, Tatsuya Oshima, Yoshinari Baba

P35 Extraction Behavior of Precious Metals from Hydrochloric Acid with 8-Dodecoxyquinoline
Kyohei Kanoya, Tatsuya Oshima, Yoshinari Baba

P36 Study on Sm^{3+}/Er^{3+} Extraction from Dilute Solution by Microcapsule Containing P507
Yue Wang, Yu Jing, Yundong Wang

P37 Study of Metals Recovery from Mobile Phone Batteries Part 1: Grinding, Classification and Leaching
Zeferino G. Arroyo, María E. R. Godínez, Mario A. S. Berrios, Daniel Q. Almanza, Lorena E. S. Cadena, Alberto F. A. Alvarado, Agustín R. U. Ramírez, Fernando I. G. Castro

P38 Study of Metal Recovery from Mobile Phone Batteries Part 2: Separation of Copper and Cobalt
Zeferino G. Arroyo, Daniel Q. Almanza, María E. R. Godínez, Mario A. S. Berrios, Lorena E. S. Cadena, Alberto F. A. Alvarado, Agustín R. U. Ramírez, Fernando I. G. Castro

P39 Bench-Scale Solvent Extraction Separation of Indium from Authentic LCD Waste Leachate
Sami Virolainen, Tommi Huhtanen, Antero Laitinen, Tuomo Sainio

P40 Effect of Cr(VI) on the Extraction and Separation V(V) from the Leaching Solution of Chromium-Containing Vanadium Slag with Primary Amine
Pengge Ning, Hongbin Cao

P41 Combined Solvent Extraction and Photoreduction for Treatment of Cr(VI)-containing Water
Keng Xie, Haibei Wang, Sanping Liu

New Extractants and Solvent

P42 Selective Separation of Platinum-Group Metals with Polymer Micelles
Akihiro Hirate, Michinari Kohri, Tatsuo Taniguchi, Keiki Kishikawa, Takeshi Ogata, Hirokazu Narita, Ryuhei Motokawa

P43 Zinc(II) and Iron(III) Extraction from Chloride Media Using Pyridinecarboximidamides As Extractants
Irmina Wojciechowska, Karolina Wieszczycka, Aleksandra Wojciechowska

P44 N,N-Dihexyl-N'-Hydoxypyridine-2-Carboximidamide As Promising Extractant of Cu(II) from Sulfate Media
Przemysław Aksamitowski, Aleksandra Wojciechowska, Karolina Wieszczycka

P45 Interfacial Activity of Pyridine Extractants In Model Extraction System
Aleksandra Wojciechowska, Irmina Wojciechowska, Katarzyna Staszak, Karolina Wieszczycka

P46 Synergic Ionic-Liquid Extraction of Lanthanoid(III) with Tropolone and Hydrophobic Neutral Ligands
Yohei Higuchi, Yoshio Nishiyama, Hirohisa Nagatani, Hisanori Imura

P47 Recovery of Rare Earths (REs) from Simulated Phosphors Waste by Undiluented Ionic Liquid-Based Synergistic Extraction
Junmei Zhao, Huizhou Liu

P48 Application of Propylene Carbonate to The Extraction of Rare Earth Metal Ions Using DODGAA
Yuka Kobayashi, Taiki Uchida, Shin-ichi Kawano, Shunichi Oshima, Yujiro Watanabe, Yu Komatsu, Kaoru Fujinaga

P49 Synthesis of Methylacrylate-Styrene Copolymer Containing A Sulfur Atom and Extraction Equilibrium of Gold(III) from Hydrochloric Acid
Minako Iwakuma, Takafumi Hanada, Yoshinari Baba

P50 Effective Separation of Pt(IV), Pd(II), and Rh(III) In Acidic Solution by Using Phosphonium-Based Ionic Liquid
Mochamad, L, Firmansyah, Fukiko Kubota, Masahiro Goto

P51 Anomalously Suppressed Ion-Exchange Extraction Behavior of Ni(II) Into Ionic Liquids with Using N,N,N',N'-Tetrakis(2-Pyridylmethyl)Ethylenediamine As A Neutral Chelator
Natsumi Asano, Kotaro Morita, Naoki Hirayama

P52 Effect of Chelating Agent on Ionic Liquid Chelate Extraction of Trivalent Metals Using Bidentate Ligands
Ayano Eguchi, Kotaro Morita, Hiroyuki Okamura, Naoki Hirayama

P53 Extraction of Arsenic and Antimony Using Cyclopentyl Methyl Ether in Hydrochloric Acid Media
Naoki Matsuo, Tatsuya Oshima, Yoshinari Baba, Noriyasu Otsuki

P54 Synthesis of Six Schiff Base Ligands for The Extraction and Transport of Base Metal Ions
Robert C. Luckay, Joshua C. Hensberg, Thalia Carstens, Hezron F. Ogutu

P55 Synthesis of 5-7 Donored-Atom Schiff Base Ligands for The Separation of Base Metal Ions
Robert C. Luckay, Hezron F. Ogutu, Rehana Malgas-Enus

P56 Extraction Behavior of Metal Ions Using 8-Quinolinol In Cyclopentyl Methyl Ether
Takao Koyama,Tatsuya Oshima, Yoshinari Baba, Noriyasu Otsuki

P57 Extraction Behavior of Au(III) Using Aromatic Ether Extractants In Hydrochloric Acid Media
Takashi Horiuchi, Tastuya Oshima, Yoshinari Baba

P58 Separation of Lithium from Salt Lake Brine by Solvent Extraction with Mixture of Tributyl Phosphate and Ionic Liquid
Takuma Sekimoto, Syouhei Nishihama, Kazuharu Yoshizuka

P59 Extraction and Separation of Thorium from Rare Earths by Calixarene Extractants
Yanling Li, Youcai Lu, Yuli Sun, Wuping Liao

P60 Selective Extraction of Antimony and Arsenic with Alkylated Piperazine Derivative
Rieko Miura, Tatsuya Oshima, Yoshinari Baba

P61 PGM Extraction Properties of Calix[4]arene-Based N-Dialkylamino Extractants from Leach Liquors of Automotive Catalysts
Manabu Yamada[1], Yu Kaneta, Muniyappan Rajiv Gandhi, Yoshihiko Kondo, Uichi Akiba, Kenshu Fujiwara, Shibayama Atsushi, Fumio Hamada

P62 The Influence of Ultrasonic Waves on Mass Transfer of Single Drops Liquid-Liquid Extraction
Javad Saien, Sana Daneshamoz

P63 General Hydrodynamic Behaviours of an Extraction Column In High Viscosity System
Donni Adinata

P64 Fluorous Solvents for The Recovery of Valuable Metals: from Classical Issues of Solvent Extraction to Three-Liquid-Phase Systems
Damien Bourgeois, Bertrand Braibant, Daniel Meyer

Environmental Applications

P65 Rapid Detection of Water Samples Contaminated with Radioactive Strontium by Laser-Induced Breakdown Spectroscopy(LIBS)
Jin-young Park, Hyun-A Kim, Kihong Park, Kyoung-Woong Kim

P66 Column Adsorption of As(V) with Polyacrylamide Cryogel Containing Iron Hydroxide Oxide Nanoparticles
Daiki Ichikawa, Shiro Kiyoyama, Koichiro Shiomori

Biological & Pharmaceutical Application and Bioseparation

P67 Partitioning Behaviors of Polyphenolic Compounds onto Model Biomembranes
Jin Han, Keishi Suga, Keita Hayashi, Yukihiro Okamoto, Hiroshi Umakoshi

P68 Preparation of Poly-N-isopropylacrylamide Cryogel Containing Liposomes and Its Chiral Selectively Adsorption of Tryptophan
Koichiro Shiomori, Yui Hiramure, Keishi Suga, Hiroshi Umakoshi, and Jin Matsumoto

P69 Hydrophobic Ionic Liquids for Effective Production of Paclitaxel in Plant Cell Culture
Shinjiro Yamamoto, Takato Kataoka, Yuka Sonoda, Shuhei Hayashi, Hitoshi Miyasaka

P70 A New Downstream Process for Biotechnological Production of Itaconic Acid Via Reactive In-Situ Extraction, Back-Extraction and Crystallization
Armin Eggert, Tim Maßmann,Miriam Faulde, Dirk Kreyenschulte, Lars Regenstein, Jochen Büchs, Andreas Jupke

P71 Aerated Extraction Column for Reactive Extraction from Fermentation Broth
Andreas Bednarz, Peter Scherübel, Antje Spiess, Andreas Pfennig

Nuclear Fuel Application

P72 Development of An Improved GANEX 2nd Cycle Using a Modified TDDGA Extracting Agent
Daniel Magnusson, Rikard Malmbeck, Andreas Geist

P73 Continuous Extraction and Separation of Am^{3+} and Cm^{3+} Using A High-Performance Ligand
Hideya Suzuki, Yasuhiro Tsubata, Tomohiro Toigawa, Tatsuro Matsumura

P74 Extraction Behavior of Sr(II) from Nitric Acid Solution Using DTBUCH18C6 Containing Ionic Liquid Extraction System and Its Medical Application
Seong-Yun Kim, Tadayuki Takahashi, Tatsuya Ito

P75 Development of Asymmetry N-Alkyl- N'-Alkylamide Extractants for Nuclear Fuel Reprocessing
Shinichi Suzuki, Tohru Kobayashi, Hideaki Shiwaku, Tsuyoshi Yaita

P76 The Batch Test of TODGA/F-3 Solvent Using Gram-Amounts of Americium
V.L. Vidanov, L.I. Tkachenko, M.G. Dmitriev, V.E. Davidov, E.V. Kenf, V.A. Babain, A.Yu. Shadrin, A.Yu. Evsyukova

P77 Development and Performance of An Industrial-Scale Annular Centrifugal Contactor for the Nuclear Industry
Wuhua Duan

P78 DTPA-Amino Acid Conjugates, Complexing Agent and Buffer in a Single Molecule: Towards a Simplified TALSPEAK Process
Jennifer E. Jones, Andreas Geist, Peter Kaden, Leigh R. Martin, Louise S. Natrajan

P79 Recovering Plutonium/Uranium Product from Used Nuclear Fuel: Concept and Testing
Tatiana G Levitskaia, Jarrod R Allred, Sam B Bryan, Gabriel B Hall, Jack D Law, Amanda M Lines, Gregg J Lumetta, Candido Pereira

P80 Influence of Gamma-Radiolysis of a Minor Actinide Extractnt on Lanthanides Extraction
Tomohiro Toigawa; Hideya Suzuki; Sho Ishii; Nao Tsutsui; Yasutoshi Ban; Tatsuro Matsumura

P81 Desorption of Radioactive Cesium (Cs) from Clay Minerals in Soil contaminated by Fukushima Daiichi NPP Accident
Kenji Takeshita, Xiangbiao Yin

Solid Liquid Extraction

P82 Adsorption of As(III) and As(V) on Magnetic Iron-Yttrium Binary Oxide
Amu Wakamatsu, Kaoru Ohe, Tatsuya Oshima, Yoshinari Baba

P83 Selective Separation of Sc^{3+} Using Surface Modified Adsorbents Loaded with MSP-8
Kaoru Goto, Yasushi Nakajima, Syunichi Oshima, Yujiro Watanabe, Yu Komatsu, Geoff W.Stevens, Kaoru Fujinaga

P84 Extraction of Cu(II) Ion from Aqueous Solution with Various Type of Microcapsules Containing LIX84-I
Nov Irmawati Inda, Masaya Fukumaru, Shiro Kiyoyama, Koichiro Shiomori

P85 Optimizing A Green Ultrasound-Assisted Extraction Method for The Recovery of Hesperidin from Citrus Limon Waste
Konstantinos Papoutsis, Penta Pristijono, John B. Golding, Costas E. Stathopoulos, Michael C. Bowyer, Christopher J. Scarlett, Quan V. Vuong

P86 Removal of Boron from Geothermal Water with Ion Exchange Technique
Narito Enta, Syouhei Nishihama Kazuharu Yoshizuka, Muserref Arda, Nalan Kabay

P87 The Cesium Uptake Behavior of Vermiculite Which Observed on The Grain Sizes.
Noriko Suzuki, Asumi Ooki, Yuri Amano, Kotaro Ochi

P88 Adsorption Behavior of Metal Ions with 4-Benzoyl-3-Methyl-1-Phenyl-5-Pyrazolone Supported on Mesoporous Silicate MCM-41
Syunichi Oshima, Yujiro Watanabe, Geoffrey. W. Stevens, Kaoru Fujinaga, Yu Komatsu

P89 Adsorption of Indium and Gallium on Natural Banana Fiber
Tetsuto Kajiyama, Kensuke Arai, Hisao Kokusen

P90 Solid-Phase Extraction of Ga^{3+} and In^{3+} with A Hexadentate Chelating Reagent
Tetsuto Kajiyama, Satomi Makino, Shuhei Takase, Satoshi Ohmuro,Akira Tajima, Kensuke Arai, Hisao Kokusen

P91 Extraction Behavior of Metal Ions into Mesopores of Bipyridine-Functionalized SBA-15
Yousuke Fukuzawa, Isamu Fujiwara, Yoshiko Murakami

P92 Molybdenum Isotope Fractionation in Basic Aqueous Solution Using Anion Exchange Chromatography
Yu Tachibana, Masanobu Nogami, Toshitaka Kaneshiki, Tatsuya Suzuki, Masao Nomura

P93 The Effect of Particle Structure on the DNA Adsorption for Superparamagnetic Fe_3O_4@SiO_2 Nanoparticles
Huifang Xing, Liangrong Yang, Hao Yu, Jiemiao Yu, Huizhou Liu

P94 Anion Exchangeof Arsenic Oxyanions by Ni-Zn Hydroxide Double Salts
Kaoru Ohe, Ryosuke Tabuchi, Tatsuya Oshima, Yoshinari Baba, Takayoshi Hara, Shogo Shimazu

Plant and equipment design

P95 Coalescence in Highly Viscous Systems
David Leleu, Nicole S. Bruns, Andreas Pfennig

P96 Monitoring of Liquid-Liquid Phase Separation Regarding Sedimentation and Coalescence Behavior Applying Impedance Measurements
Benedikt Weber, Armin Eggert, Andreas Jupke

P97 Single-Drop Experiments for Challenging Conditions as Basis for Extraction-Column Simulations
José Manuel Ayesterán Jerez, Florian Buchbender, Murat Kalem, Eva Kalvoda, Andreas Pfennig

P98 How to Handle Two Liquid Phases: Learn from Solvent Extraction to Develop Next Generation Technologies
Madhukar O Garg

P99 Controlled Architecture of Glass Fiber/Poly(Glycidyl Methacrylate) Composites via Surface-initiated ICAR ATRP Mediated by Mussel-Inspired Polydopamine Chemistry for Lithium Isotopes Separation
Wenqing Wang, Paziliya Julaiti, Gang Ye, Xiaomei Huo, Jing Chen

P100 Mass Transfer Studies in Packed Extraction Column for Extraction of Acetic Acid from Dilute Aqueous Stream
M O Garg, Kumar Ishaan, Parampreet Singh

Membrane Extraction and Liquid Membrane

P101 Application of Pseudo-Emulsion Based Hollow Fiber Strip Dispersion (PEHFSD)for Recovery Zn(II) Using TBP-3PC10 Mixture as Carrier
Aleksandra Wojciechowska, M. Teresa A. Reis, Karolina Wieszczycka, M. Rosinda C. Ismael, Magda Regel-Rosocka, Irmina Wojciechowska, Jorge M.R. Carvalho

P102 Membrane-Based Solvent Extraction for Cobalt(II) Separation Using Cyanex 272
Malgorzata Janiszewska, Eugenio Bringas, María F. San Román, Magdalena Regel-Rosocka, Inmaculada Ortiz

P103 Transportation and Separation of Copper (II) and Cobalt (II) Ions Through a Liquid Membrane with Ligands of β-Diketone
Hiroshi Mukai, Katsuya Kitoh, Riu Urashima, Kouhei Suzuki, Kengo Shintani, Rie Hirota, Yuuya Kogure, Tomohiro Kimura, Takuya Ogino, Yuka Kanazawa, Yoshiki Sohrin

P104 Chiral Selective Adsorption of L-Amino Acid onto Heterogeneous Liposome Interface
Koichiro Shiomori, Yui Hiramure, Keishi Suga, Hiroshi Umakoshi, Jin Matsumoto

P105 Evaluation of Metal Ion Selectivity of Hexadecyl-Iminodiacetate on Lipid Membrane Surface
Daiki Wada, Yukihiro Okamoto, Keishi Suga, Hiroshi Umakoshi

P106 Separation of Scandium(III) from Lanthanides Using a Polymer Inclusion Membrane Containing an Amic Acid-Extractant Carrier
Wataru Yoshida, Yuzo Baba, Fukiko Kubota, Spas D. Kolev, Masahiro Goto

P107 Zinc(II) Membrane-Extraction by N-Decyloxy-1-(3-pyridyl)ethanoimine using Pseudo-Emulsion Based Hollow Fiber Strip Dispersion (PEHFSD) Processing
Aleksandra Wojciechowska, M. Teresa A. Reis, , M. Rosinda C. Ismael, Karolina Wieszczycka, Irmina Wojciechowska, Jorge M.R. Carvalho

P108 Comparative Pertraction of Germanium(IV) by Supported Liquid Membrane (SLM) Extraction by Various Carriers
Hossein Kamran Haghighi, Mehdi Irannajad, Davood Moradkhani

Others (including Super Critical Fluid)

P109 Ethanol Modified Liquid Carbon Dioxide Extraction and Antioxidant Activity of Nobiletin and Tangeretin from Peels of Citrus Poonensis
Ryunosuke Mitani, Shinichi Tokunaga, Masashi Haraguchi, Kenji Mishima, Tanjina Sharmin, Miyuki Nakamura, Takafumi Kato, Makoto Misumi, Tadashi Suetsugu, Hideaki Orii, Keiichi irie, Tomomitsu Satho, Takunori Harada

P110 Coalescence Enhancement of Oil Droplets In W/O Emulsions with Packed-Bed Type Coalescers
Satoru Nozawa, Katsuki Kikuchi, Takashi Goshima, Kei Mizuta, Tatsuya Masui, Susumu Nii

P111 Protein Separation with Continuous Counter-Current Foam Separation
Taishi Beppu, Kei Mizuta, Takashi Goshima, Susumu Nii

P112 Conformational Study of Platonic Micelle by Computational Chemistry and Small-Angle X-Ray Scattering
Tadashi Okobira, Hiroaki Yoda, Tomoya Ueda, Kodai Ikesue, Yusuke Sanada, Shota Fujii, Kazuo Sakurai

P113 CFD Analysis of Interfacial Mass Transfer in Micro-Solvent Extraction Processes
Arantza Basauri, Jenifer Gómez-Pastora, Marcos Fallanza, Eugenio Bringas, Inmaculada Ortiz