



EMChIE 2006
5th European Meeting on
CHEMICAL INDUSTRY AND
ENVIRONMENT
Vienna, Austria
May 3 – 5, 2006

CONFERENCE
PROGRAMME

Organized by

INSTITUTE OF CHEMICAL ENGINEERING
MECHANICAL PROCESS ENGINEERING AND
AIR POLLUTION CONTROL TECHNIQUES
VIENNA UNIVERSITY OF TECHNOLOGY

AUSTRIAN CHEMICAL SOCIETY (GÖCH)

SCOPE AND TOPICS

The Chemical Process Industry emits quite a lot of environmentally hazardous material during their production processes, which should be minimized or separated. The first approach is to develop cleaner production methods or secondly to use suitable separation or disposal methods.

Due to increasingly stringent environmental regulations (e.g. in dust separation, PM10, PM2.5, PM1) more emphasis should be laid on the improvement of these methods. Detailed keywords concerning these methods are:

- Air pollution control
(removal of gaseous components, particle separation)
- Waste water treatment
(solid liquid separation, micro-filtration, membranes, biological treatment)
- Waste minimization and disposal
- Combustion
(high efficiency energy conversion, CO₂-reduction)
- Particle Technology
- Testing, Validation, Monitoring
- Risk analysis and loss prevention

The European Meeting on Chemical Industry and Environment EMChIE V will bring together engineers, managers, scientists from industry, universities and relevant administration officials to inform and discuss new developments and the latest innovative ideas in this field.

The first European Meeting on Chemical Industry and Environment EMChIE I was organized by its founder Prof. Casal in Girona Spain, 1993, followed by EMChIE II in Torino Italy, 1996, EMChIE III in Krakow Poland, 1999, EMChIE IV, Las Palmas, Spain 2003 and we are honoured to organize EMChIE V now in Vienna, Austria.

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Front page: Cult Wagon from Strettweg, Austria, 7th B.C., Bronze
(Landesmuseum Joanneum, Graz)

SESSION SURVEY I

WEDNESDAY, 03.05.2006

08:00 - 09:00	REGISTRATION		
09:00 - 09:30	OPENING SESSION		
09:30 - 11:00	PLENARY LECTURES I		
11:00 - 11:30	BREAK		
11:30 - 13:00	PLENARY LECTURES II		
13:00 - 14:15	LUNCH		
14:15 - 15:30	L1 WASTE WATER SOLID LIQUID SEPARATION TECHNIQUES	G1 WASTE GAS DUST SEPARATION TECHNIQUES	W1 WASTE MANAGEMENT WASTE MINIMISATION AND DISPOSAL
15:30 - 16:00	BREAK		
16:00 - 17:40	L2 WASTE WATER SOLID LIQUID SEPARATION TECHNIQUES	G2 WASTE GAS DUST SEPARATION TECHNIQUES	W2 WASTE MANAGEMENT WASTE MINIMISATION AND DISPOSAL
18:30 - 20:00	Get Together		

SESSION SURVEY II

THURSDAY, 04.05.2006

09:00 – 10:15	L3 WASTE WATER TREATMENT	G3 WASTE GAS DUST SEPARATION TECHNIQUES	W3 WASTE MANAGEMENT WASTE MINIMISATION AND DISPOSAL
10:15 – 10:45	BREAK		
10:45 – 12:00	L4 WASTE WATER TREATMENT	G4 WASTE GAS TREATMENT	P1 POSTER SESSION WASTE MANAGEMENT
12:00 – 13:20	LUNCH		
13:20 – 13:45	P2 POSTER SESSION	G5 WASTE GAS TREATMENT	W4 WASTE MANAGEMENT WASTE MINIMISATION AND DISPOSAL
13:45 – 15:00	WASTE WATER TREATMENT		
15:00 – 15:30	BREAK		
15:30 – 16:45	L5 WASTE WATER TREATMENT	P3 POSTER SESSION WASTE GAS TREATMENT	R1 RISK ANALYSIS AND LOSS PREVENTION
16:45 – 17:10	BREAK		
17:10 – 18:00	P4 POSTER SESSION WASTE WATER TREATMENT	P5 POSTER SESSION TEST METHODS PROCESS IMPROVEMENTS	
20:00	Reception at the City Hall of Vienna		

SESSION SURVEY III

FRIDAY, 05.05.2006

09:00 – 10:15	L6	G6	R3
	WASTE WATER TREATMENT	WASTE GAS TREATMENT	RISK ANALYSIS AND LOSS PREVENTION
10:15 – 10:45	BREAK		
10:45 – 12:00	L7	G7	T1
	WASTE WATER TREATMENT	WASTE GAS TREATMENT	TEST METHODS AND MONITORING
12:00 – 13:20	LUNCH		
13:20 – 14:35	L8	I1	T2
	WASTE WATER TREATMENT	PROCESS IMPROVEMENT	TEST METHODS AND MONITORING
14:35 – 15:00	BREAK		
15:00 – 16:15	L9	I2	
	WASTE WATER TREATMENT	PROCESS IMPROVEMENT	

CONFERENCE PROGRAMME

WEDNESDAY, 03.05.2006		Nr. time
REGISTRATION	08:00 – 09:00	
OPENING SESSION	09:00 – 09:30	
PLENARY LECTURES I	09:30 – 11:00	A1
SEPARATION TECHNOLOGIES FOR WASTEWATER REDUCTION AND RECYCLING, <i>R. Wakeman, Loughborough University, UK</i>		9:30
WASTE MANAGEMENT, A KEY ELEMENT FOR ENVIRONMENTAL PROTECTION AND RESOURCES CONSERVATION, <i>P.H. Brunner, Vienna University of Technology, Austria</i>		10:15
PLENARY LECTURES II	11:30 – 13:00	A2
GASEOUS EMISSIONS FROM WASTE COMBUSTION, <i>J. Werther, Technical University Hamburg-Harburg, Hamburg, Germany</i>		11:30
PARTICULATE EMISSIONS FROM MODERN FILTER-BASED GAS CLEANING DEVICES AND THEIR CHARACTERIZATION ACCORDING TO PM_{2,5} CRITERIA, <i>G. Kasper, University of Karlsruhe, Germany</i>		12:15
WASTE WATER SOLID LIQUID SEPARATION TECHNIQUES	14:15 – 15:30	L1
MICROFILTRATION WITH ROTATING MEMBRANES, <i>Y. Taamneh, S. Ripperger, Technical University of Kaiserslautern, Germany</i>		151 14:15
CHEMICAL CLEANING OF MEMBRANES, <i>M. Nyström, S. Platt, Lappeenranta University of Technology, Finland</i>		23 14:40
CLEAN PRODUCTION AND SIGNIFICANT ENERGY SAVINGS WITH A HYBRID SEPARATION PROCESS – THE HI-BAR STEAM PRESSURE FILTRATION, <i>R. Bott, Th. Langeloh, BOKELA GmbH, Karlsruhe, Germany</i>		143 15:05
WASTE GAS DUST SEPARATION TECHNIQUES	14:15 – 15:30	G1
GAS FILTRATION USING A FIXED BED HEAT EXCHANGER-FILTER (FHEF), <i>M. Socorro, J.M. Monzón-Verona, et al., Universidad de Las Palmas de Gran Canaria, Spain</i>		3 14:15
GRANULAR BED FILTRATION OF HIGH TEMPERATURE BIOMASS GASIFICATION GAS, <i>D. Stanghelle, O.K. Sønju, Norwegian University of Science and Technology, T. Slungaard, Vetco Aibel A/S, Stjørdal, Norway</i>		177 14:40
INFLUENCE OF LEAKS IN SURFACE FILTERS ON PARTICULATE EMISSIONS, <i>B. Bach, E. Schmidt, University of Wuppertal, Germany</i>		15 15:05

WEDNESDAY, 03.05.2006		Nr. time
WASTE MANAGEMENT WASTE MINIMISATION AND DISPOSAL	14:15 – 15:30	W1
ALTERNATIVE STRATEGIES FOR MUNICIPAL SOLID WASTES MANAGEMENT IN ITALY , <i>C. Merli, Università di Roma "La Sapienza", Italy</i>		157 14:15
SUSTAINABILITY ASSESSMENT OF ALTERNATIVE WASTE DISPOSAL PROCESSES , <i>A. Tugnoli, C. Stramigioli, et al., Università di Bologna, Italy</i>		106 14:40
CHALLENGES FOR RESEARCH IN CHEMICAL ENGINEERING - THE NEED FOR CONCERTED ACADEMICS-INDUSTRY ACTIONS , <i>V. Meité, K. Everaert, et al., University of Antwerp, Belgium</i>		10 15:05
WASTE WATER SOLID LIQUID SEPARATION TECHNIQUES	16:00 – 17:40	L2
THREE STEPS TO A NEW FILTRATION QUALITY - MODERNISATION OF FILTER PLANTS BY REVAMPING , <i>Th. Langeloh, R. Bott, BOKELA GmbH, Karlsruhe, Germany</i>		153 16:00
PREDICTION OF THE RESIDUAL FILTER CAKE MOISTURE AND THE PERMEABILITY BASED ON POROSITY MODEL , <i>Th. Neesse, J. Dueck, Friedrich- Alexander-University Erlangen-Nuremberg, Germany</i>		65 16:25
TESTS OF FILTER MEDIA FOR LIQUID FILTRATION: INTRODUCTION AND REVIEW , <i>C. Peuchot, Institute of Filtration and Techniques of Separation, Agen, France</i>		179 16:50
HIGH-SPEED LASER PROCESSING OF MICRO- FILTRATION SIEVES , <i>M. Baumeister, K. Dickmann, Laser Center University of Applied Sciences Muenster (LFM), Steinfurt, Germany</i>		91 17:15
WASTE GAS DUST SEPARATION TECHNIQUES	16:00 – 17:40	G2
NEW CATALYTIC CERAMIC FILTER ELEMENT FOR IMPROVED GAS CLEANING , <i>A. Startin, G. Elliott, Madison Filter Ltd., Lancashire, UK</i>		172 16:00
INTENSIFICATION OF PULSE-JET CLEANING OF INDUSTRIAL FILTERS , <i>P. Vybíral, J. Hemerka, Czech Technical University in Prague, Czech Republic</i>		34 16:25
FILTERED AIR FLOW DISTRIBUTION IN PULSE-JET BAGHOUSE DUST COLLECTOR DURING CLOGGING AND CLEANING CYCLES , <i>X. Simon, S. Chazelet, et al., Université Henri Poincaré, Nancy, D. Bémer, R. Régnier, Institut National de Recherche et de Sécurité, Vandoeuvre-lès-Nancy, France</i>		35 16:50
DUST EMISSIONS CAUSED BY FREE FALLING BULK SOLIDS , <i>G. Rheina-Wolbeck, W. Höflinger, Vienna University of Technology, Austria</i>		169 17:15

WEDNESDAY, 03.05.2006		Nr. time
WASTE MANAGEMENT WASTE MINIMISATION AND DISPOSAL	16:00 – 17:40	W2
AIR AND WATER EMISSIONS IN A SUSTAINABLE TECHNOLOGICAL WORLD, H.H. Kleizen, Delft University of Technology, The Netherlands		26 16:00
STATE OF THE ART AND CHALLENGES OF BIOFUELS AND WASTE UTILIZATION IN FLUIDIZED BED COMBUSTORS, F. Winter, Vienna University of Technology, Austria		165 16:25
LIFE CYCLE ASSESSMENT OF PET BOTTLES: GASEOUS AND LIQUID EMISSION, M.V.P. Remedio, Universidade de Marília, Brasil; M. Zanin, Universidade Federal de São Carlos, Brasil		81 16:50
ROLE OF BIOINOCULANTS IN BIO-STABILIZATION OF ORGANIC FRACTION OF MUNICIPAL SOLID WASTE (OFMSW) AND QUALITY OF VERMICOMPOST, K. Pradhan, S. Sharma, et al., CRDT, Indian Institute of Technology Delhi, India		142 17:15
THURSDAY, 04.05.2006		Nr. time
WASTE WATER TREATMENT	09:00 – 10:15	L3
REVIEW OF MEMBRANE BIOLOGICAL REACTOR FOR DRINKING WATER PRODUCTION, A. Fuqaha, M. Harasek, et al., Vienna University of Technology, Austria		40 9:00
INFLUENCE OF ENVIRONMENTAL CONDITIONS ON EPS ELIMINATION AND FOULING IN MEMBRANE BIOREACTORS, A. Drews, V. Iversen, et al., Technische Universität Berlin, Germany; B. Lesjean, M. Vocks, KompetenzZentrum WasserBerlin, Germany		82 9:25
AERATION OF A MEMBRANE BIOREACTOR IN AN AIRLIFT LOOP CONFIGURATION, H. Prieske, M. Kraume, Technische Universität Berlin; D. Tacke, S. Baumgarten, et al., RWTH Aachen, Germany		121 9:50
WASTE GAS DUST SEPARATION TECHNIQUES	09:00 – 10:15	G3
CONTROL OF SULFURIC ACID MIST EMISSIONS BY HIGH VELOCITY WESP. MINIMIZATION OF THE INFLUENCE OF CORONA SUPPRESSION ON PARTICLE COLLECTION EFFICIENCY, A. Bologa, H.-R. Paur, et al., Forschungszentrum Karlsruhe, Germany; R. Arheidt, Rauschert Verfahrenstechnik GmbH, Germany		52 9:00
REVIEWING THE GROWING POTENTIAL OF POROUS SINTERED METAL FILTERS, I. Schildermans, J. Baeyens, University of Antwerp, Belgium		12 9:25
INFLUENCE OF DUST LOADING AND FILTRATION VELOCITY ON BAG FILTER OPERATION AND CAKE FORMATION, M. Saleem, Graz University of Technology, Austria; G. Krammer, Norwegian University of Science and Technology, Trondheim, Norway		99 9:50

THURSDAY, 04.05.2006		Nr. time
WASTE MANAGEMENT WASTE MINIMISATION AND DISPOSAL	09:00 – 10:15	W3
OVERVIEW AND RECENT DEVELOPMENTS IN EFFECTIVE PARTICLE DECONTAMINATION BY WASHING PROCESSES, H. Anlauf, University of Karlsruhe, Germany		47 9:00
PURIFICATION OF INDUSTRIAL EFFLUENTS WITH REACTIVE CARRIERS, H.-J. Bart, Technische Universität Kaiserslautern, Germany		8 9:25
ENHANCING THE USE OF WASTE ACTIVATED SLUDGE AS BIO-FUEL THROUGH SELECTIVELY REDUCING ITS HEAVY METAL CONTENT, R. Dewil, J. Baeyens, et al., University of Antwerp, Belgium		13 9:50
WASTE WATER TREATMENT	10:45 – 12:00	L4
COMPARISON OF NUTRIENTS DEGRADATION IN SMALLSCALE MBR FED WITH SYNTHETIC/DOMESTIC WASTEWATER, U. Bracklow, A. Drews, et al., TU Berlin, Germany; M. Vocks, Berlin Centre of Competence for Water, Germany		75 10:45
APPLICATION OF THE AOP'S IN INDUSTRIAL WASTEWATER TREATMENT, A.K. Bin, R. Sakowicz, et al., Warsaw University of Technology, Poland; J. Zielinski, Institute of Organic Industry, Warsaw, Poland		66 11:10
EVALUATION OF THE FOTO-FENTON PROCESS AS AN ALTERNATIVE ADVANCED OXIDATION PROCESS (AOP) FOR WATER TREATMENT, S. Liers, N. Lambert, et al., W&K [De Nayer instituut], Sint-Katelijne-Waver, Belgium		69 11:35
WASTE GAS TREATMENT	10:45 – 12:00	G4
TREATMENT OF VOC-CONTAINING FLUE GASES BY REGENERATIVE ABSORPTION IN HEAVY SOLVENTS, D. Bourgois, J. Vanderschuren, et al., Faculté Polytechnique de Mons, Belgium		83 10:45
DRY SCRUBBING OF ACID GASES IN RECIRCULATING CYCLONES, R. Salcedo, V. Chibante, Universidade do Porto, Portugal; A. Fonseca, Universidade Fernando Pessoa, Porto, Portugal		107 11:10
PARAMETRIC ANALYSIS OF THE ELECTRON BEAM PROCESS FOR SO₂ AND NO_x REMOVAL, A. Pawelec, A.G. Chmielewski, et al., Institute of Nuclear Chemistry and Technology, Warsaw, Poland		98 11:35

THURSDAY, 04.05.2006		Nr. time
POSTER SESSION	10:45 – 12:00	P1
APPLICATION OF CLEANER PRODUCTION IN SULPHURIC ACID PROCESS IN MATANZAS, CUBA, <i>M.A. Pèlach, J.A. Méndez, University of Girona, Spain; C. Cruz Cabrera, Universidad de Matanzas, Cuba; H. Pérez de Alejo Victoria, Instituto Superior Politécnico José Antonio Echeverría, Habana, Cuba</i>		96 10:45
PROCESS REDESIGN USING GENETIC ALGORITHMS, <i>M.A. Pèlach, X. Turon, et al., University of Girona, Spain</i>		108 10:50
FROM SEQUENTIAL EXTRACTION TO QUANTIFICATION OF URANIUM SORPTION TO CONTAMINATED SOIL, <i>M. Stojanović, D. Kovačević, et al., Institute for Technology of Nuclear and other Mineral Raw Materials, Belgrade, Yugoslavia</i>		5 10:55
IMPACT OF PAST INDUSTRIAL ACTIVITY ON THE CONTENT OF HEAVY METALS IN THE SOIL/GRASS SYSTEM IN SIBENIK (CROATIA), <i>I. Lovrencic, V. Orescanin, et al., Institute Rudjer Boskovic, Zagreb, Croatia; M. Rubcic, M. Rozmaric-Macefat, Faculty of Science, Zagreb, Croatia</i>		20 11:00
MODELING OF ZINC LEACHING FROM STABILIZED/SOLIDIFIED ELECTRIC ARC FURNACE DUST BASED ON THE SOLUBILITY, <i>I. Fernández-Olmo, C. Lasa, et al., University of Cantabria, Santander, Spain</i>		39 11:05
SYNTHESIS OF LIGNIN-PHENOL-FORMALDEHYDE NOVOLAC RESIN FROM AMMONIUM LIGNOSULPHONATE, <i>F. Rodríguez, J.M. Pérez, et al., Universidad Complutense de Madrid, Spain; J.M. Echeverría, Hexion Specialty Chemicals Ibérica S.A., Hernani, Spain</i>		42 11:10
RECOVERY OF GOLD(I) BY SUPPORTED LIQUID MEMBRANES WITH STRIP DISPERSION USING HOLLOW FIBBER CONTACTORS, <i>A.M. Sastre, J.V. Sonawane, Universitat Politècnica de Catalunya, Barcelona, Spain; A.K. Pabby, Bhabha Atomic Research Centre, Tarapur, India</i>		61 11:15
ARSENITE SORPTION ON DIFFERENT IRON OXIDE MINERALS: HEMATITE, GOETHITE, AND MAGNETITE, <i>J. Giménez, M. Martínez, et al., Dept. of Chemical Eng. (ETSEIB-UPC), Barcelona, Spain; M. Rovira, CTM Centre Tecnològic, Manresa, Spain; L. Duro, ENVIROS-SPAIN S.L., Valldoreix, Spain</i>		71 11:20
AMMONIUM REMOVAL FROM LANDFILL LEACHATE BY ANODIC OXIDATION, <i>A. Urtiaga, A. Cabeza, et al., University of Cantabria, Santander, Spain</i>		117 11:25
ANALISYS OF THE CONTENT OF METALS IN PLANTS GROWING ON AN OLD LANDFILL IN LODZ SUBURB, <i>A. Zawadzka, J. Sęk, et al., Technical University of Lodz, Poland</i>		118 11:30

THURSDAY, 04.05.2006		Nr. time
INTEGRATED PROCESS OF METHANE FERMENTATION AND HIGH-TEMPERATURE HYDROLYSIS OF POULTRY WASTES , A. Zawadzka, <i>M. Imbierowicz, Technical University of Lodz, Poland</i>		119 11:35
A THERMGRAVIMETRIC STUDY OF SEWAGE SLUDGE CHAR-CO₂ REACTION KINETICS , L. Nowicki, T. Bedyk, <i>Technical University of Lodz, Poland</i>		132 11:40
PRODUCT DISTRIBUTION MODELLING IN THE THERMAL PYROLYSIS OF HIGH DENSITY POLYETHYLENE , G. Elordi, G. Lopez, et al., <i>University of the Basque Country, Bilbao, Spain</i>		147 11:45
KINETICS OF TYRE THERMAL DEGRADATION IN A CONICAL SPOUTED BED REACTOR , G. Lopez, <i>G. Elordi, et al., University of the Basque Country, Bilbao, Spain</i>		148 11:50
POSTER SESSION	13:20 – 15:00	P2
UTILIZATION OF BAUXITE SLAG FOR THE PURIFICATION OF LOW LEVEL LIQUID RADIOACTIVE WASTE , L. Mikelic, V. Orescanin, et al., <i>Ruder Boskovic Institute, Center for marine and environmental research, Zagreb, Croatia</i>		21 13:20
APPLICATION OF THE ACTIVATED IRON SLAG FOR THE PURIFICATION OF WASTEWATERS ORIGINATED FROM BOAT PRESSURE WASHING IN MARINAS , V. Orescanin, L. Mikelic, et al., <i>Ruder Boskovic Institute, Center for marine and environmental research, Zagreb, Croatia</i>		19 13:25
TREATMENT OF ELECTROPLATING WASTEWATERS USING WASTE FERROUS SULPHATE AND WOOD FLY ASH , N. Mikulic, <i>Ministry for Environmental Protection and Physical Planning, Zagreb, Croatia</i> ; V. Orescanin, K. Nad, <i>et al., Ruder Boskovic Institute, Center for marine and environmental research, Zagreb, Croatia</i>		22 13:30
PRETREATMENT OF INDUSTRIAL WASTEWATER IN AIR-LIFT COLUMNS , M. Dziubiński, P. Budzyński, <i>Technical University of Lodz, Poland</i>		137 13:35
THE EFFECT OF COAGULANT PAX-18 ON OXYGEN UPTAKE RATE IN ACTIVE SLUDGE , M. Dziubiński, A. <i>Wolborska, et al., Technical University of Lodz, Poland</i>		138 13:40
PHOTOCATALYTIC OXIDATION OF FORMALDEHYDE IN WATER SOLUTIONS BY TiO₂/UV/O₂ SYSTEM , <i>M. Imbierowicz, Technical University of Lodz, Poland</i>		134 13:45
THE EFFECT OF ADDITIVES ON THE TREATMENT OF OIL-IN-WATER EMULSIONS BY VACUUM EVAPORATION , G. Gutiérrez, A. Cambiella, et al., <i>University of Oviedo, Spain</i>		122 13:50
HYDROTHERMAL OXIDATION: APPLICATION TO THE TREATMENT OF DIFFERENT CUTTING FLUID WASTES , <i>J. Sánchez-Oneto, J.R. Portela, et al., University of Cádiz, Puerto Real, Spain</i>		116 13:55

THURSDAY, 04.05.2006		Nr. time
PHOTOCATALYTIC OXIDATION AND ADSORPTION OF NATURAL AND SYNTHETIC STEROID ESTROGENS ON TiO₂ IN AQUEOUS SOLUTIONS AT DIFFERENT pH, <i>J. Kallas, T. Malygina, et al., Lappeenranta University of Technology, Finland</i>	102	14:00
SUPERCRITICAL WATER HYDROLYSIS AS A PRELIMINARY STAGE OF BIOLOGICAL DEGRADATION OF GELATINE, <i>G. Rogacki, A. Zawadzka, Technical University of Lodz, Poland</i>	103	14:05
STUDIES ON THE HYDRODYNAMICS OF TEXTILE STRUCTURES AS BIOLOGICAL BED CARRIERS, <i>E. Gromadzińska, S. Krauze, Institute of Textile Materials Engineering, Lodz, Poland; G. Rogacki, Technical University of Lodz, Poland</i>	101	14:10
ENZYMATIC ELIMINATION OF PHENOL IN STIRRED AND TORUS REACTOR, <i>L. Pramparo, I. Sanchez, et al., Universitat Rovira i Virgili, Tarragona, Spain; A. Fortuny, Universitat Politècnica de Catalunya, Vilanova i la Geltrú, Spain</i>	90	14:15
PHENOL OXIDATION BY CHELATED IRON: INITIAL pH INFLUENCE, <i>I. Sánchez, F. Stüber, et al., U. Rovira i Virgili, Tarragona, Spain; A. Fortuny, U. Politècnica de Catalunya, Vilanova i la Geltrú, Spain</i>	94	14:20
RETENTION OF RADIUM FROM THERMAL WATERS ON SAND FILTERS AND ADSORBENTS, <i>C. Elejalde, M. Herranz, et al., Escuela Técnica Superior de Ingeniería, Bilbao, Spain; A. Baeza, Universidad de Extremadura, Cáceres, Spain</i>	68	14:25
INTEGRATED SYSTEM FOR HEAVY METALS PRECIPITATION AND PETROLEUM BIODEGRADATION, <i>R.M. Pérez, A. Abalos, University of East Santiago of Cuba, Cuba; J.M. Gómez, G. Cabrera, et al., University of Cadiz, Puerto Real, Spain</i>	58	14:30
PRECIPITATION OF Cr(III), Ni(II) AND Zn(II) IN SOLUTION BY SULPHATE REDUCING BACTERIA, <i>G. Cabrera, J.M. Gómez, et al., University of Cadiz, Puerto Real, Spain; R. Pérez, University of Oriente, Santiago de Cuba, Cuba</i>	60	14:35
UPGRADING OF TREATED WASTEWATER BY BIOREACTOR WITH USING TWO SYNTHETIC POROUS CARRIERS, <i>M.-C. Chang, H. Shao, et al., Industrial Technology Research Institute, Hsinchu, Taiwan; Y.-J. Hu, KNH Enterprise Co., Ltd., Taiwan</i>	67	14:40
ELECTRODIALYSIS OF AMMONIUM SULFATE SOLUTIONS - CONDUCTIVITY MEASUREMENT AND CORRELATION, <i>M. Harasek, A. Friedl, Vienna University of Technology, Austria; L.I. Cotet, I. Siminiceanu, Technical University of Iași, Romania</i>	6	14:45
THE EFFECT OF MOLECULAR WEIGH OF POLYMER AND SOLVENT TYPE ON RHEOLOGICAL PROPERTIES OF CHITOSAN SALTS, <i>Z. Modrzejewska, P. Owczarz, Technical University of Lodz, Poland</i>	105	14:50

THURSDAY, 04.05.2006		Nr. time
COMPARISON BETWEEN TWO MICROBIAL CULTURES AND THE INFLUENCE OF THE ACCLIMATION IN THE AEROBIC DEGRADATION OF CARBOHYDRATES AND PHENOLICS , <i>A. Lallai, G. Mura, et al., Università di Cagliari, Italia</i>		124 14:55
WASTE GAS TREATMENT	13:45 – 15:00	G5
CAPTURE OF CARBON DIOXIDE USING AN IMPREGNATED ACTIVATED CARBON , <i>S. Boissière, L. Perier-Camby, et al., Ecole Nationale Supérieure des Mines de Saint Etienne, France</i>		33 13:45
APPLICATION OF POLYIMIDE MEMBRANE FOR BIOGAS PURIFICATION AND ENRICHMENT , <i>A. G. Chmielewski, M. Harasimowicz, Institute of Nuclear Chemistry and Technology, Warsaw, Poland; P. Orluk, Warsaw University of Technology, Poland</i>		78 14:10
VACUUM-UV- (VUV-) PHOTOCHEMICALLY INITIATED OXIDATIVE DEGRADATION OF ORGANIC POLLUTANTS IN THE GASPHASE , <i>A.M. Braun, A. Arques Sanz, et al., University of Karlsruhe, Germany</i>		49 14:35
WASTE MANAGEMENT	13:45 – 15:00	W4
WASTE MINIMISATION AND DISPOSAL		
FLUIDIZED BED PYROLYSIS OF PMMA TO THE MMA MONOMER , <i>K. Smolders, M. van de Velden, et al., University of Antwerp, Belgium</i>		11 13:45
THE SPREADING MECHANISM OF FREE RADICAL REACTIONS DURING OZONATION OF WET CARBOHYDRATE SOLIDS AND ITS IMPACT ON DEGRADATION , <i>E. Johansson, J. Lind, Royal Institute of Technology, Stockholm, Sweden</i>		125 14:10
PULSED ELECTRIC FIELD ASSISTED SOLID/LIQUID EXPRESSION OF AGRO-FOOD MATERIALS: TOWARDS A NOVEL ENVIRONMENTALLY FRIENDLY TECHNOLOGY , <i>E. Vorobiev, I. Praporscic, et al., Université de Technologie de Compiègne, France</i>		154 14:35
WASTE WATER TREATMENT	15:30 – 16:45	L5
CATALYTIC AND NON-CATALYTIC WET AIR OXIDATION OF SODIUM DODECYLBENZENE SULFONATE: KINETICS AND BIODEGRADABILITY ENHANCEMENT , <i>M.E. Suárez-Ojeda, J. Font, Universitat Rovira i Virgili, Tarragona, Spain; J. Kim, University of Manchester, UK; J. Carrera, Universitat Autònoma de Barcelona, Spain; I.S. Metcalfe, University of Newcastle upon Tyne, UK</i>		59 15:30
PHOTOCATALYTIC OXIDATION OF 2,4,6-TRICHLOROPHENOL IN WATER USING A COCURRENT DOWNFLOW CONTACTOR REACTOR (CDCR) , <i>I.J. Ochuma, J.M. Winterbottom, et al., University of Birmingham, United Kingdom</i>		18 15:55

THURSDAY, 04.05.2006		Nr. time
REMOVAL OF CHROMIUM FROM ELECTROPLATING INDUSTRY EFFLUENTS BY ION EXCHANGE RESINS, <i>S.A. Cavaco, S. Fernandes, et al., University of Coimbra, Portugal</i>	46	16:20
POSTER SESSION	15:30 – 16:45	P3
CATALYTIC DESTRUCTION OF DIOXINS, <i>G. Wielgosiński, Technical University of Lodz, Poland</i>	44	15:30
ON THE KINETICS OF SULPHUR DIOXIDE ABSORPTION WITH SUSPENSIONS OF BAYER RED MUD, <i>G. Mura, E. Fois, et al., Università di Cagliari, Italia</i>	70	15:35
PREPARATION AND USE OF DESULFURANT SORBENTS OBTAINED BY WET MIXTURE OF CaO OR Ca(OH)₂ WITH DIFFERENT SOURCES OF SILICA, <i>J. Fernández, M.J. Renedo, Universidad de Cantabria, Santander, Spain</i>	29	15:40
BIOFILTRATION OF AMMONIA AND BENZENE, <i>J.M. Aragón, M.C. Palancar, et al., Universidad Complutense de Madrid, Spain</i>	56	15:45
BIOTRICKLING FILTER FOR HYDROGEN SULPHIDE REMOVAL BY THIOBACILLUS THIOPARUS, <i>M. Ramirez, J.M. Gómez, et al., University of Cádiz, Puerto Real, Spain</i>	48	15:50
ADSORPTION ISOTHERMS OF NAPHTHALENE- PHENANTHRENE BINARY MIXTURES ON A COMMERCIAL COKE , <i>A.M. Mastral, R. Murillo, et al., CSIC, Zaragoza, Spain</i>	86	15:55
FOUNTAIN GEOMETRY IN SPOUTED BEDS CONSISTING OF SOLIDS OF VARYING DENSITY, <i>M.J. San José, S. Alvarez, et al., Universidad del País Vasco, Bilbao, Spain</i>	43	16:00
BENZALDEHYDE REDUCTION OVER COPPER, NICKEL SUPPORTED CHARCOAL, <i>A. Saadi, R. Merabti, et al., USTHB, Bab-Ezzonar, Algeria; M.M. Bettahar, Université Henri Poincaré, Nancy, France</i>	17	16:05
DESCRIPTION OF THE PULSE-JET CLEANING OF BAGS SUPPORTED BY RIGID RINGS, <i>X. Simon, S. Chazelet, et al., Université Henri Poincaré, Nancy, France; D. Bémer, Institut National de Recherche et de Sécurité, Vandoeuvre-lès-Nancy, France</i>	55	16:10
THE INFLUENCE OF THE INHOMOGENEITY OF THICK DEPTH FILTER MEDIA FOR AEROSOL FILTRATION, <i>Ch. Ehrenberg, W. Höflinger, Vienna University of Technology, Austria</i>	173	16:15
TERRITORIAL PLANNING AND EMERGENCIES MANAGEMENT FOR A COMPLEX INDUSTRIAL AREA, <i>V. Bartolozzi, S. Bajardi, et al., Regional Agency of Environmental Protection of Sicily, Palermo, Italy</i>	28	16:20

THURSDAY, 04.05.2006		Nr. time
RISK ANALYSIS AND LOSS PREVENTION	15:30 – 16:45	R1
LARGE HYDROCARBON POOL FIRES: EFFECTS OF THIN-LAYER BOILOVER ON FLAME GEOMETRY, <i>F. Ferrero, J. Arnaldos, et al., Universitat Politècnica de Catalunya, Barcelona, Spain</i>		31 15:30
THE EMISSIVE POWER OF HYDROCARBON POOL FIRES, <i>M. Muñoz, E. Planas, et al., Universitat Politècnica de Catalunya, Barcelona, Spain</i>		32 15:55
OVERVIEW OF CURRENT PRACTICES REGARDING LAND USE PLANNING AROUND SEVESO SITES IN WALLOON REGION (BELGIUM), <i>Ch. Delvosalle, S. Brohez, et al., Major Risk Research Centre, Mons, Belgium; F. Benjelloun, Ministère de la Région Wallonne, Jambes, Belgium</i>		95 16:20
POSTER SESSION	17:10 – 18:00	P4
THE EFFECT OF RIVER BASIN TYPE ON ZINC CONCENTRATION IN SELECTED TRIBUTARIES OF THE UPPER NAREW, <i>E. Skorbitowicz, A. Zawadzka Białystok University of Technology, Poland</i>		167 17:10
CONCENTRATION CHANGES OF SELECTED WATER QUALITY INDICATORS ALONG THE NAREW RIVER IN THE AREA BETWEEN SIEMANÓWKA RESERVOIR AND THE TOWN OF TYKOCIN, <i>M. Skorbitowicz, A. Zawadzka Białystok University of Technology, Poland</i>		168 17:15
ADSORPTION OF QUATERNARY AMMONIUM ON A SOLID SURFACE OF A CATION EXCHANGE RESIN AND IMPROVEMENT OF SELECTIVITY TO HEAVY METALS, <i>M. Amara, H. Kerdjoudj, USTHB, Algiers, Algeria</i>		16 17:20
ENERGY-SAVING POTENTIAL OF CROSS-FLOW ULTRAFILTRATION WITH INSERTED STATIC MIXER: APPLICATION TO AN OIL-IN-WATER EMULSION, <i>D.M. Krstić, W. Höflinger, Vienna University of Technology, Austria; A.K. Koris, G.N. Vatai, Corvinus University of Budapest, Hungary</i>		77 17:25
DESIGNED ACTIVATED CARBON AS CATALYST FOR PHENOL OXIDATION IN AQUEOUS PHASE, <i>M. Baricot, A. Fabregat, et al., Universitat Rovira i Virgili, Tarragona, Spain; A. Fortuny, Universitat Politècnica de Catalunya, Barcelona, Spain</i>		45 17:30
CFD AND RTD METHODS FOR WASTEWATER TREATMENT PLANT SETTLER INVESTIGATION, <i>S. Ptaszek, A. Owczarczyk, et al., Institute of Nuclear Chemistry and Technology, Warsaw, Poland</i>		97 17:35
ANALYSIS OF THE OPTIMAL FEED POSITION FOR THE BHS ROTARY PRESSURE FILTER BY CFD CALCULATIONS, <i>J.F. Puga, K. Nikolaus, et al., Technical University of Kaiserslautern, Germany; J.W. Tichy, BHS Sonthofen, Germany</i>		152 17:40

THURSDAY, 04.05.2006		Nr. time
THE INFLUENCE OF REYNOLD'S NUMBER TO PRESSURE LOSS IN DIFFERENT FILTER MEDIA FOR SOLID LIQUID SEPARATION, J.W. Tichy, BHS Sonthofen, Germany	79	17:45
CWPO OF PHENOL OVER DIFFERENT PREPARED Cu/ZSM-5 CATALYSTS, K. Maduna Valkaj, S. Zrnčević, University of Zagreb, Croatia; A. Katovic, Universita della Calabria, Italy	180	17:50
POSTER SESSION	17:10 – 18:00	P5
DESIGN STRATEGIES FOR RELIABLE ANN'S-BASED pH-CONTROL SYSTEMS IMPLEMENTATION, J.M. Aragón, M.C. Palancar, et al., Universidad Complutense de Madrid, Spain	57	17:10
APPLICATION OF ARTIFICIAL NEURAL NETWORK FOR EVALUATION OF EMEP STATIONS LOCALIZATION IN AUSTRIA AND IN THE CLOSE NEIGHBORING, E. Jach - Szakiel, J. Skrzypski, Technical University of Lodz, Poland	38	17:15
ATMOSPHERIC TRACE ELEMENT POLLUTANTS IN THE PM10 OF ZARAGOZA, A.M. Mastral, M.S. Callén, et al., CSIC, Zaragoza, Spain	87	17:20
MONITORING OF INDOOR AIR QUALITY OF LIBRARIES, L.X. Ito, K.B. Rodrigues, et al., Federal University of São Carlos – UFSCar, São Paulo, Brazil	100	17:25
RECYCLED YARNS COMING FROM TEXTILE INDUSTRIES AS REINFORCEMENT FOR POLYPROPYLENE COMPOSITES, F. Vilaseca, J.P. López, et al., University of Girona, Spain	112	17:30
CHEMICAL MODIFICATION OF JUTE FIBERS FOR THE PRODUCTION OF GREEN-COMPOSITES, F. Corrales, F. Vilaseca, et al., University of Girona, Spain	113	17:35
HYPERTENSION DEVELOPING ELEMENTS IN PROCESSED FOODS, L. Tavacioglu, C. Yerlikaya, et al., Istanbul Technical University, Turkey; U. Erturk, Uludag University, Bursa, Turkey	133	17:40
THE INFLUENCE OF CATCHMENT TYPE ON SODIUM AND POTASSIUM CONCENTRATION IN BOTTOM DEPOSITS IN RIVERS OF THE UPPER NAREW BASIN, E. Skorbitowicz, Technical University of Bialystok, Poland; A. Zawadzka, Technical University of Lodz, Poland	120	17:45
APPLICATION OF FUZZY LOGIC TO ASSESS THE RISK OF ACCIDENTAL RELEASES OF ECOTOXIC SUBSTANCES IN MAJOR HAZARD PLANTS, R.M. Darbra, J. Casal, Universitat Politècnica de Catalunya, Barcelona, Spain; M. Demichela, S. Murè, et al., SAFeR-Centro Studi su Sicurezza, Affidabilità e Rischi, Torino, Italy	141	17:50
AN ACCIDENTAL RELEASE OF TOLUENE-DIISOCYANATE INVESTIGATION, N. Piccinini, M. Demichela, SAFeR - Centro Studi su Sicurezza Affidabilità e Rischi, Torino, Italy	140	17:55

FRIDAY, 05.05.2006		Nr. time
WASTE WATER TREATMENT	09:00 – 10:15	L6
PILOT PLANT OPERATION OF A FLUIDIZED CRYSTALLIZATION PROCESS FOR CALCIUM FLUORIDE RECOVERY , <i>A. Irabien, A. Garea, et al., Universidad de Cantabria, Santander, Spain</i>		74 9:00
SURFACTANT ADSORPTION EXTENT ON ULTRAFILTRATION MEMBRANES , <i>D. Doulia, I. Xiarchos, National Technical University of Athens, Greece</i>		73 9:25
MASS AND ENERGY INTEGRATION OF A PULP AND PAPER PROCESS USING DIFFERENT METHODOLOGIES , <i>J. Labidi, R. Llano-Ponte, University of the Basque Country, Donostia/San Sebastian, Spain; K. Koczka, Z. Fonyo, Hungarian Academy of Sciences, Budapest, Hungary; Z. Szitkai, P. Mizsey, Budapest University of Technology and Economics, Hungary</i>		76 9:50
WASTE GAS TREATMENT	09:00 – 09:50	G6
DIFFERENT WAYS FOR TiO₂ PHOTODEGRADATION MECHANISMS STUDIES: GASEOUS AND TiO₂-ADSORBED PHASES , <i>F. Delpech, P.-A. Deveau, et al., Université Joseph Fourier, Grenoble, France; F. Arsac, C. Ferronato, et al., Université Claude Bernard, Lyon, France; P. Kaluzny, Tera Environnement, Grenoble, France; Ch. Monnet, Ahlstrom Research and Services, Pont Evêque, France</i>		41 9:00
CONTROL OF EMISSION OF REACTIVE GAS FROM A PAPER LAMINATING MACHINE BY USE OF CFD , <i>A. Horvath, Ch. Jordan, et al., Vienna University of Technology, Austria</i>		170 9:25
RISK ANALYSIS AND LOSS PREVENTION	09:00 – 10:15	R3
SAFETY AND ENVIRONMENTAL ISSUES IN THE ALKYLATION PROCESS BASED ON USA PETROLEUM INDUSTRIES EXPERIENCES , <i>A.S. Markowski, Technical University of Lodz, Poland; M.S. Mannan, Y. Wang, et al., Texas A&M University System, USA</i>		63 9:00
SIMPLIFIED AUTOMATIC GENERATION OF ACCIDENT SCENARIO FOR LOPA , <i>A.S. Markowski, Technical University of Lodz, Poland; M.S. Mannan, Texas A&M University System, USA</i>		64 9:25
FUZZY LOGIC APPLICATION FOR LOPA , <i>A.S. Markowski, Technical University of Lodz, Poland; M.S. Mannan, Texas A&M University System, USA</i>		62 09:50

FRIDAY, 05.05.2006		Nr. time
WASTE WATER TREATMENT	10:45 – 12:00	L7
MODELING OF SOAKING OF POLYPROPYLENE FIBER CLOTH WITH EMULSIONS , <i>J. Sęk, Technical University of Lodz, Poland</i>		150 10:45
RADIATION-INDUCED DEGRADATION OF BIOLOGICAL RESISTANT POLLUTANTS IN DRINKING AND INDUSTRIAL WASTE-WATERS , <i>N. Getoff, University of Vienna, Austria</i>		181 11:10
IRON-CATALYZED MICHAEL REACTIONS – FROM EXPERIMENT TO THEORY AND BACK , <i>J. Christoffers, Universität Stuttgart, Germany</i>		25 11:35
WASTE GAS TREATMENT	10:45 – 12:00	G7
HIGH-EFFICIENCY DIOXIN REMOVAL BY CATALYTIC SINTERED METAL FIBRE FILTERS , <i>K. Everaert, J. Baeyens, University of Antwerp, Belgium</i>		184 10:45
BALANCES AND EMISSIONS OF PCDDs FROM A CEMENT KILN , <i>G. Genon, E. Brizio, Politecnico di Torino DITAG, Italy</i>		27 11:10
ACCOUNTING OF CO₂ EMISSIONS IN ECONOMIC ANALYSIS OF INTEGRATED DESALINATION SYSTEMS , <i>S.P. Agashichev, Research Center ADWEA, Abu Dhabi, United Arab Emirates</i>		7 11:35
TEST METHODS AND MONITORING	10:45 – 12:00	T1
PARTICLE NUMBER AND PARTICLE SIZE DETERMINATION IN THE OUTSIDE AIR WITH HIGH TIME RESOLUTION AND REPRESENTATIVE SAMPLING ACCORDING TO VDI 2119 SHEET 4 , <i>S. Schütz, M. Schmidt, L. Mölter, Palas® GmbH, Karlsruhe, Germany</i>		92 10:45
DESIGN OF FILTER BAGS BY PRACTICE-ORIENTED MEDIA TESTS INCLUDING AGEING , <i>P. Lohse, F.O.S. Umwelt- und Filtertechnik GmbH, Ahlen, Germany; M. Schmidt, L. Mölter, Palas® GmbH, Karlsruhe, Germany</i>		93 11:10
ON-LINE MONITORING OF VOC EMITTED FROM HARZARDOUS WASTE INCINERATORS USING PTR-MS , <i>A. Hansel, University of Innsbruck, Austria; A. Shimono, M. Naganuma, Sanyu Plant Service Co, Ltd., Japan</i>		183 11:35
WASTE WATER TREATMENT	13:20 – 14:35	L8
MEMBRANE TREATMENT AS A TECHNICAL STEP TOWARDS ZERO EMISSION IN THE TEXTILE INDUSTRY , <i>B. Slawitsch, H. Schnitzer, Joanneum Research, Graz, Austria; M. Planasch, Graz University of Technology, Austria</i>		159 13:20

FRIDAY, 05.05.2006		Nr. time
THE CHARACTERIZATION, DISPOSAL AND NEUTRALIZATION OF THE SLURRY PROCEEDING FROM AN OIL REFINERY, C.I. Koncsag, University of Constanta, Romania; M. Grigore, C. Ioan, Rompetrol Quality Control, Navodari, Romania		36 13:45
DECONTAMINATION OF HEAVY METAL POLLUTED PROCESS WATER, WASTE WATER AND FILTER CAKE WITH HIGH PERFORMANCE, R. St. Kalb, R. Krachler, B.K. Keppler, University of Vienna, Austria		182 14:10
PROCESS IMPROVEMENT	13:20 – 14:35	I1
AN IMPROVED METHOD FOR WASHING LIGNIN PRECIPITATED FROM KRAFT BLACK LIQUOR – THE KEY TO A NEW BIO-FUEL, F. Öhman, H. Wallmo, et al., Chalmers University of Technology, Göteborg, Sweden		161 13:20
HEMP STRAW AS FILLER/REINFORCEMENT FOR POLYPROPYLENE COMPOSITES, F. Vilaseca, M.E. Vallejos, et al., University of Girona, Spain		109 13:45
TECHNICAL AND ECONOMICAL ASPECTS RELATED TO SHEAR FACTOR IN RECYCLED PULP, P. Sarquella, S. Presta, et al., University of Girona, Spain		110 14:10
TEST METHODS AND MONITORING	13:20 – 14:35	T2
PERFORMANCE OF PRESSURISED AGRICULTURAL VEHICLE CABS AGAINST PESTICIDES – AEROSOL TESTING METHOD AND FIELD STUDY, D. Bémer, Institut National de Recherche et Sécurité (INRS), Vandoeuvre, France; J.-P. Larrat, Caisse Centrale de la Mutualité Sociale Agricole (CCMSA), Bagnolet, France		9 13:20
TRANSMITTED LIGHT MICROSCOPY- A NEW METHOD FOR SURFACE STRUCTURE ANALYSIS OF CLEANABLE NON-WOVEN DUST FILTER MEDIA, H. Rud, G. Mauschitz, et al., Vienna University of Technology, Austria		174 13:45
A NEW MEASURING METHOD TO DETECT THE EMISSIONS OF METAL WORKING FLUID MIST, P. Wlaschitz, W. Höflinger, Vienna University of Technology, Austria		178 14:10
WASTE WATER TREATMENT	15:00 – 15:50	L9
A 3D SIMULATION STUDY OF SLUDGE BLANKET CLARIFIER, R.-M. Wu, Z.H. Lee, et al., Tamkang University, Taiwan		80 15:00
IMMOBILISATION OF ENZYMES ONTO MESOPOROUS SILICA MATERIALS, D. Moelans, J. Baeyens, et al., University of Antwerp, Belgium		14 15:25

FRIDAY, 05.05.2006		Nr. time
PROCESS IMPROVEMENT	15:00 – 16:15	I2
COMPOSITE MATERIALS REINFORCED WITH CELLULOSE-RECYCLED FIBRES , <i>F. Vilaseca, J.P. López, et al., University of Girona, Spain</i>		111 15:00
NEW TOTALLY BIODEGRADABLE COMPOSITES BASED ON PLLA AS POLYMER MATRIX AND FLAX STRANDS AS REINFORCEMENT , <i>J.A. Méndez, J.P. López, et al., University of Girona, Spain</i>		114 15:25
RECYCLED FIBERS AS VISCOSITY MODIFIERS , <i>A. Bartl, B. Mihalyi, et al., Vienna University of Technology, Austria</i>		145 15:50

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GENERAL INFORMATION

DATES AND TIMES

Conference: 03 – 05 May 2006, 09:00h – ca. 18:00h

REGISTRATION FEES

Speakers, poster presenter	€ 520,--
Students (below 30 years, with legitimation)	€ 380,--
Regular fee	€ 590,--

OPENING HOURS REGISTRATION DESK

Tuesday, 02 May 2006	16:00h – 18:00h
Wednesday, 03 May 2006	08:00h – 17:00h
Thursday, 04 May 2006	08:00h – 17:00h
Friday, 05 May 2006	08:00h – 15:00h

SOCIAL EVENTS

Get Together: Wednesday 03 May 2006, 18:30h

Reception by the Mayor
at the City Hall of Vienna: Thursday 04 May 2006, 20:00h

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