13th International Conference on Materials Chemistry (MC13)
Programme

Cross-cutting themes:
Devices and Sensors
Materials Characterisation
Modeling and Computational Chemistry
Translation to Application

Monday 10 July 2017

11:30	Refreshments & registration										
12:00	Lunch										
12:45	Welcome & Introduction Andrew Cooper and Matthew Rosseinsky										
13:00	**K05: Gas Separations in Metal-Organic Frameworks** Long, Jeff										
14:00	Time to move between theatres										
Theme		**Energy & Environment**		**Materials Design**		**Magnetic, Electronic & Optical Materials**		**Soft Matter & Biomaterials**		**Nanomaterials**	
Session chair		TBC		TBC		TBC		TBC		TBC	
14:10	Keynote	K01	**Materials discovery via computed energy-structure-function landscapes** Day, Graeme	K02	**Chemistry at a Point: Emergent Nanomaterials** Irvine, John	K03	**Third generation solar cells from laboratory to factory; developing a scale-up route for perovskite solar cells to turn buildings into power stations** Watson, Trystan	K04	**Protein engineering of multi-functional biomaterials for regenerative medicine** Heilshorn, Sarah	NC_13	**Interfacing Inorganic Nanocrystals with Biological Systems via Surface Ligand Design** Mattoussi, Hedi
14:40	Contributed oral	EE01	**Computational investigation of the Li+ Ion dynamics in the new perovskite La3Li3W2O12** Dyer, Matthew	MD01	**Welding molecular crystals** Adolf, Cyril		**Photocatalytic water purification aimed at rural India** Robertson, Neil	SM01	**Self-sorted photoresponsive multi-component hydrogels** Draper, Emily	NC01	**Synthesis of enzyme responsive surfaces-towards a smart cell-material interface** Canning, Anne
15:00	Contributed oral	EE02	**Molecular modelling of conjugated polymer photocatalysts for hydrogen evolution** Pearce, Drew	MD02	**Luminescent gold(I)-thiophenolate coordination polymers as phase change materials and precursors for the formation of multifunctional nanocomposites** Demessence, Aude	MEO02	**Monodisperse perovskite colloidal nanocrystals for applications in energy storage and flexible electronics** Caruntu, Gabriel	SM02	**Towards a biofunctional polypeptide-based hydrogel suitable for bioprinting** Giliomee, Johnel	NC02	**Design, synthesis, 2D self-assembly and host-guest properties of phenylene-vinylene tectons at the liquid-HOPG interface** Kreher, David
15:20	Contributed oral	EE03	**Identifying the next generation of solar absorbers using lessons learned from the success of CH3NH3PbI3** Scanlon, David	MD03	**Computational design of photocatalytic metal-organic frameworks** Grau-Crespo, Ricardo	MEO03	**Development of extremely high two photon absorbing transition metal dichal-cogenides MoS2 quantum dots for multicolor two-photon cancer imaging** Ray, Paresh	SM03	**Bifunctional nanoparticles mediated cell-material interactions and controlled drug delivery** Kehr, Nermin Seda	NC03	**Aqueous assisted self-templated synthesis of organophosphonitridic hollow structures** Pappas, George
15:40	Refreshments										
		Energy & Environment		**Materials Design**		**Magnetic, Electronic & Optical Materials**		**Soft Matter & Biomaterials**		**Nanomaterials**	
16:20	Contributed oral	EE04	**Photocurable polymeric coatings for improved stability and multifunctionality in solution-processable photovoltaics** Griffini, Gianmarco	MD04	**Towards materials "beyond graphene" – irreversible, covalent chemistry in 2D** Bojdys, Michael	MEO04	**Structure and geometrically frustrated magnetism of layered oxide-stannide compounds** Söhnel, Tilo	SM04	**Block copolymer self-assembly roadmap: predict, synthesize, characterize** Ianiro, Alessandro	NC04	**Photothermal application of NIR plasmonic thermoresponsive nanogels** Glitscher, Emanuel
16:40	Contributed oral	EE05	**Interfacial charge transfer in nanocarbon-inorganic hybrid photocatalysts** Cherevan, Alexey	MD05	**Linking structure and function to design porous organic materials** Chen, Linjiang	MEO05	**Effect of electron count and chemical complexity in the Ta-Nb-Hf-Zr-Ti high-entropy alloy superconductor** von Rohr, Fabian	SM05	**Understanding the spectral features and optical properties of self-assembled materials based on low molecular-mass organic gelators** Zwijnenburg, Martijn	NC05	**Tuneable Ag@SiO2 core-shell nanocomposites for broad spectrum antibacterial applications** Isaacs, Mark
17:00	Contributed oral	EE06	**Highly efficient hydrogen formation by a nickel-molybdenum catalyst-modified silicon micropillar array** Huskens, Jurriaan	MD06	**Designing with defects in metal-organic frameworks** Cliffe, Matthew	MEO06	**Carrier generation and electronic properties of a single-component pure organic metal** Kobayashi, Yuka	SM06	**Directly synthesised covalent amide frameworks** Stewart, Dave	NC06	**Tuning vacancy in ultrasmall nanoparticles for multimodal imaging and therapy of cancer** Li, Zhen
17:20	Contributed oral	EE07	**N-annulated PDIs for organic electronics: synthesis, electronic and structural characterization, and utility as electron acceptors in organic solar cells** Welch, Gregory	MD07	**Accelerated discovery of two new structure types in a complex inorganic phase field** Collins, Chris	MEO07	**Complex magnetic order induced by corner- and edge-sharing CuCl6-octahedra in a two-dimensional hybrid** Kamminga, Machteld	SM07	**Synthesis of hydroxyapatite nanoparticles by sol-gel methods, on spores and in 3D-printed Ca2+-crosslinked PVA hydrogels and their use in bone regeneration** Sermon, Paul	NC07	**Selective gas sensors based on organooxotin-based and tin oxide-based materials** Lee, Szu-Hsuan
17:40	Poster Session										
19:10	Close										

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Tuesday 11 July 2017

09:00	**PL02: Rational Design of High Performance Thermoelectrics** Kanatzidis, Mercouri										
10:00	Time to move between theatres										
Theme		**Energy & Environment**		**Materials Design**		**Magnetic, Electronic & Optical Materials**		**Soft Matter & Biomaterials**		**Nanomaterials**	
Session Chair		TBC		TBC		TBC		TBC		TBC	
10:10	Keynote	K06	**The Versatility of Mesoscopic Solar Cells** Hagfeldt, Anders	K07	**Tuning Metal-Organic Frameworks properties towards enhanced catalytical performances: Advances in combined experimental-computational approaches** Mellot-Draznieks, Caroline	K08	**Magnetocaloric Materials: Function, Rapid Preparation, and Rational Screening** Seshadri, Ram	K09	**Porphyrin Boxes: More Than a Porous Organic Cage** Kim, Kimoon	K10	**In Situ Transmission X-ray Microscopy of Nanoscale Electrochemical Systems** Ryan, Mary
10:40	Contributed oral	EE_08	**Battery chemistry based on fluoride ions?!** Clemens, Oliver	MD_08	**Engineered silicon substrates to study crystal nucleation** Bejarano-Villafuerte, Angela	MEO_08	**Ag2Cu3Cr2O8(OH)4: a new bidimensional silver-copper mixed -oxyhydroxide with in-plane ferromagnetic coupling** Muñoz-Rojas, David	SM_08	**Bioimprinting technology for the removal of blood cancer cells from acute myeloid leukaemia patients** Paunov, Vesselin	NC_08	**High-temperature superconductivity in space charge zones of lanthanum cuprate induced by two-dimensional doping** Baiutti, Federico
11:00	Contributed oral	EE_09	**Hyperporous carbons from hypercrosslinked polymers** Lee, Jet-Sing	MD_09	**Light-Harvesting Antennae using the Host-Guest Chemistry of Mesoporous Organosilica** Jarman, Ben	MEO_09	**SION-1 and SION-2: a comprehensive study on how to engineering the optical response in metal-organic frameworks** Tiana, Davide	SM_09	**A new actuator technique by controllably buckling polyelectrolyte hydrogel thin layer** Xu, Ben	NC_09	**Ordered mesoporous cerias prepared by a new nanocasting method** Baker, Richard
11:20	Refreshments										
		Energy & Environment		**Materials Design**		**Magnetic, Electronic & Optical Materials**		**Soft Matter & Biomaterials**		**Nanomaterials**	
12:00	Contributed oral	EE_10	**Energy storage mechanisms and comprehensive structural characterisation of mixed-metal complex oxides** Griffith, Kent	MD_10	**Surface-assisted polyaromatic frameworks: when 'top down' and 'bottom up' strategies meet** Larkin, Eugene	MEO_10	**Molecular design and device architecture of novel solution-processable emitting oligomers for green, red and blue OLEDs** Breig, Benjamin	SM_10	**Multifunctional ultrashort antimicrobial peptide nanomaterials for biomedical applications** Laverty, Garry	NC_10	**Colloidal nanoparticles as catalysts – design and immobilization** Collins, Gillian
12:20	Contributed oral	EE_11	**The dynamic character of a phase transition in Li5-xHxLa3Nb2O12 garnets: a concerted lithium and proton diffusion mechanism?** Sanjuán, María Luisa	MD_11	**Tuning colour and understanding its origin in co-crystallised organics: a spectroscopic and computational study** Pallipurath, Anuradha	MEO_11	**MoOx-modified PEDOT:PSS as anode interlayer in organic optoelectronics** Morbidoni, Maurizio		**Stimuli-responsive Biomaterials for Drug Delivery and Tissue Engineering** Hardy, John		**Protein Biotemplating of Magnetic Nanoparticle Arrays from Solution** Staniland, Sarah
12:40	Contributed oral	EE_12	**Characterisation of the Growth of Alkali Metal Peroxides and Superoxides at the Cathode Interface of the Alkali–Metal Oxygen Battery** Aldous, Iain	MD_12	**Recyclable hard vitrimers depending on reversible dynamic bonds** Chen, Mao	MEO_12	**Tailor-made organic semiconductors for bioelectronic applications** Nielsen, Christian	SM_12	**One drop at a time: Mechanochemically induced colour change via inkjet printing** Willis-Fox, Niamh	NC_12	**Liquid phase exfoliation of layered double hydroxides** Carrasco Andrés, Jose Alberto
13:00	Lunch and posters										
Theme		**Energy & Environment**		**Materials Design**		**Magnetic, Electronic & Optical Materials**		**Soft Matter & Biomaterials**		**Nanomaterials**	
Session Chair		TBC		TBC		TBC		TBC		TBC	
14:30	Keynote	K11	**A short review on the search for thermoelectric oxides and chalcogenides** Hébert, Sylvie	K27	**Design of High-Performance Earth-Abundant Multinary Chalcogenide Absorbers for Solar Energy Conversion** Mitzi, David	K13	**Conjugated Polymers in Active Devices: The Impact of Molecular Structure and Thin Film Formation on Application Platforms** Reynolds, John	K14	**Design and construction of peptide-based materials from the bottom up** Woolfson, Dek	K15	**Biomimetic Supramolecular Hydrogel Networks Mediated by Cucurbit[8]uril** Scherman, Oren
15:00	Contributed oral	EE_13	**Novel candidate Snx(S,Se)y thermoelectric materials: a first-principles study** Skelton, Jonathan	MD_13	**Low-cost high-throughput screening of all inorganic materials** Davies, Daniel	MEO_13	**Two-dimensional spin liquid behaviour in the triangular-honeycomb antiferromagnet, TbInO3** Clark, Lucy	SM_13	**Fabrication of living soft matter by symbiotic growth of unicellular microorganisms** Das, Anupam	NC_13	**Interfacing Inorganic Nanocrystals with Biological Systems via Surface Ligand Design** Mattoussi, Hedi
15:20	Contributed oral	EE_14	**Formation of artificial solid electrolyte interphase by radiolysis** Varenne, Fanny	MD_14	**Computational design of transparent conducting oxide ZnSb2O6** Jackson, Adam	MEO_14	**Covalent approaches for tunable optical properties in organic-inorganic ureasil hybrids** Meazzini, Ilaria	SM_14	**Stabilising the twist-bend nematic phase via hydrogen bonding** Martínez-Felipe, Alfonso	NC_14	**Synthesis and characterisation of fluorescent carbon fibers** Deeney, Clara
15:40	Contributed oral	EE_15	**Novel approaches to luminescent solar concentrator design using organic-inorganic hybrid waveguides** Evans, Rachel	MD_15	**Tight-binding approach to polaron states in fullerene adducts** Rice, Beth	MEO_15	**Magnetoelectric coupling and room temperature magnetic order in polar corundum GaFeO3** Pitcher, Michael	SM_15	**Supracolloidal self-assembly of atomically precise gold nanoparticles** Nonappa	NC_15	**Colloidal AgBiS2 nanocrystals: synthesis and use in environmentally friendly solar cells** Bernechea, María
16:00	Contributed oral	EE_16	**Nanostructured organic semiconductors for metal-free and visible light photocatalysis** Zhang, Kai		**Designing Low Molecular Weight Hydrogels** Adams, Dave	MEO_16	**Carbon dots and fluorescein: the ideal FRET pair for the fabrication of a precise and fully reversible ammonia sensor** Toncelli, Claudio	SM_16	**Watching block copolymers self-assembly with liquid phase transmission electron microscopy** Patterson, Joseph	NC_16	**Iron oxide nanoparticle-wax composite capsule coatings for drug delivery in the gastrointestinal tract** Bear, Joseph
16:20	Refreshments										
17:00	**PL03: Magnetism and magnetic oxides; manganites and magnetite revisited** Attfield, Paul										
18:00	Poster reception										
19:30	Close										

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Wednesday 12 July 2017

09:00	**PL04: Structure-property-function relationships in molecular electronic materials and devices** Nelson, Jenny										
10:00	Time to move between theatres										
Theme		**Energy & Environment**		**Materials Design**		**Magnetic, Electronic & Optical Materials**		**Soft Matter & Biomaterials**		**Nanomaterials**	
Session Chair		TBC		TBC		TBC		TBC		TBC	
10:10	Keynote	K16	**Converting Powders into Functional Materials** Bishop, Peter	K17	**Small Molecules for Large-Area Applications** Loo, Lynn	K18	**Synthetic Manipulation of Hybrid Perovskites for Dimensionality Control, Enhanced Functionalities and New Application Domains** Ogale, Satish	K19	**Biomolecules for Non-Biological Things: 1-D and 2-D Materials Construction through Peptide Design and Solution Assembly** Pochan, Darrin	K20	**Coordination polymer materials with hierarchical pore space from molecular hosts** Hardie, Michaele
10:40	Contributed oral	EE_17	**Recent developments in Polymers of intrinsic Microporosity (PIMs) for membrane applications** Budd, Peter	MD_17	**Nature of cation dynamics in hybrid formate perovskites** Svane, Katrine		**Talk TBC** Gimenez-Lopez, Maria	SM_17	**Self-assembled structures of BODIPY dyes: application in cancer therapy** Fernandez, Gustavo	NC_17	**Base metal nanoparticles: liquid-phase synthesis of Ti0 and Gd0 nanoparticles** Feldmann, Claus
11:00	Contributed oral	EE_18	**Sulfur polymers for mercury capture** Hasell, Tom	MD_18	**Ordered mesoporous functional materials with gyroidal architectures and tuneable pore sizes for photocatalysis and bioengineering** Eder, Dominik	MEO_18	**Optimising paramagnetic magnetocaloric coordination frameworks for low field applications** Saines, Paul	SM_18	**Dual-stimuli responsive injectable nanogel/solid drug nanoparticle nanocomposites for the long-term sustained release for poorly soluble drugs** McDonald, Tom	SM_11	**Bioinspired nanomaterials for environmental remediation** Patwardhan, Siddharth
11:20	Refreshments										
		Energy & Environment		**Materials Design**		**Magnetic, Electronic & Optical Materials**		**Soft Matter & Biomaterials**		**Nanomaterials**	
12:00	Contributed oral	EE_19	**Nanocarbon materials extend the application of phase change materials** Zheng, Zhaoliang	MD_19	**Designed synthesis of metal-organic frameworks and their composites for molecular separation and sensing applications** Grecea, Stefania	MEO_19	**Transparent ceramics synthesized by full crystallization from glass** Allix, Mathieu	SM_19	**Engineering microbial responses with synthetic polymers** Fernandez-Trillo, Francisco	NC_19	**Routes toward robust nanomaterials – expanding the potential applications of functional materials** Crick, Colin
12:20	Contributed oral	EE_20	**Extrusion: an efficient technique for the manufacture of organic compounds and materials** Crawford, Deborah	MD_20	**Synthesis of composite Janus particles by sequential layering deposition for visible-light photocatalytic water-splitting** Rome, Bertrand	MEO_20	**Hydrate Formation and Loss on the Hybrid Perovskite Methyl Ammonium Lead Iodide** Naderi, Majid	SM_20	**Nanoscale mechanics controls stem cell adhesion and expansion at the surface of non viscous liquids** Gautrot, Julien	NC_20	**Magnetically activated adhesives** Davies, Gemma-Louise
12:40	Contributed oral	EE_21	**Molecular donors for high performance organic solar cells** Jones, David	P101	**In-situ processes of transformation of organic-inorganic hybrid nanostructures based on TiO2** Boytsova, Olga	MEO_21	**Chemical composition and defect analysis of Al+Nb co-doped rutile TiO2** Chen, Hua	SM_21	**Light Triggered Nitric Oxide Release from N-Nitroso Porous Organic Polymers** Gregg, Sharon	NC_21	**Dendronized superparamagnetic nanoparticles as tools for MRI, efficient in vivo cancer targeting and magnetic hyperthermia treatment** NGuyen, Dinh-Vu
13:00	Lunch and posters										
Theme		**Energy & Environment**		**Materials Design**		**Magnetic, Electronic & Optical Materials**		**Soft Matter & Biomaterials**		**Nanomaterials**	
Session Chair		TBC		TBC		TBC		TBC		TBC	
14:30	Keynote	K21	**Layered Na-Mn oxides for high-capacity rechargeable battery** Komaba, Shinichi	K22	**Interfacial Assembly and Engineering of Ordered Functional Mesoporous Materials for applications** Zhao, Dongyuan	K23	**π-Conjugation in 2D Polymers** Perepichka, Dmitri	K24	**Title TBC** Duer, Melinda	K25	**Bio-Inspired Approaches to Nanocomposite Single Crystals** Meldrum, Fiona
15:00	Contributed oral	EE_22	**Multifunctional porous materials and membranes for energy and sustainability** Song, Qilei	MD_22	**Crystallisation of new families of ruthenates and iridates from water: discovery of functional oxides with magnetic and electrocatalytic properties** Walton, Richard	MEO_22	**Bismuth based double perovskites – an alternative approach for lead free hybrid perovskite** Wei, Fengxia	SM_22	**New developments in porous liquids** James, Stuart	NC_22	**Scaleable synthesis and applications of conjugated polymer nanoparticles** Turner, Michael
15:20	Contributed oral	EE_23	**Why do hybrid perovskite solar cell materials degrade more rapidly in wet air?** Eames, Christopher	MD_23	**Synthesis of Metal Carbonyl Clusters in Ionic Liquids** Wolfe, Silke	MEO_23	**Self-assembled microcavities from conjugated macromolecules and polymers for optical and laser applications** Yamamoto, Yohei	SM_23	**Using gold nanoparticles to probe the structural changes of a pH-responsive hydrogel** Saunders, Brian		**Sodium ion batteries; materials to cell** Kendrick, Emma
15:40	Contributed oral	EE_24	**Atomic layer deposition of phase-pure multinary oxides for solar water splitting** Stefik, Morgan	MD_24	**Informatics feedback loop for multi-component molecular material discovery** Robertson, Karen	MEO_24	**Towards exciplex emission from structurally complementary donors and acceptors – a unimolecular synthetic approach to a bimolecular phenomenon** Wright, Iain	SM_24	**Silk and silk composites for biomedical application** Plowright, Robyn	NC_24	**Antifouling/antibacterial coatings containing modified mesoporous silica nanoparticles with dual effect** Michailidis, Marios
16:00	Contributed oral	EE_25	**Synthesis of Mn/Co/Ti layered double hydroxide for highly efficient photocatalytic degradation of aqueous Bromocresol Green** Roy Chowdhury, Priyadarshi	MD_25	**Solid state manufacture of compositionally complex alloys** Doughty, Gregory	MEO_25	**Unconventional magnetic order in GeFe2O4 below TN = 8.6 K** Perversi, Giuditta	SM_25	**Design of advanced double-network hydrogels with hydrophilic polyurethane** Fei, Bin	NC_25	**New possibilities for the nanoscale engineering of complex oxide thin films** McMitchell, Sean
16:20	Refreshments										
17:00	**PL05: Design and properties of topological Materials** Felser, Claudia										
18:00	Close										
19:00	Coaches to conference banquet										
19:30	Conference banquet (ticket holders only)										

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Thursday 13 July 2017

09:00	**PL06: Molecular design of polymeric nanocapsules** Katharina Landfester										
10:00	Time to move between theatres										
Theme		**Energy & Environment**		**Materials Design**		**Magnetic, Electronic & Optical Materials**		**Soft Matter & Biomaterials**		**Nanomaterials**	
Session Chair		TBC		TBC		TBC		TBC		TBC	
10:10	Keynote	K26	**Electrochemical energy storage via batteries: The importance of materials** Tarascon, Jean-Marie	K12	**Surface-bound Enzymatic Reactions Organize Microcapsules and Protocells in Solution** Balazs, Ana	K28	**Functional domain walls in ferroelastic oxides** Noheda, Beatriz	K29	**"Living" Crystallization-Driven, Seeded Growth Approaches to Functional Supramolecular Materials** Manners, Ian	K30	**Hard Templating and Self-Assembly for the Synthesis of Advanced Nanostructures** Schuth, Ferdi
10:40	Contributed oral	EE_26	**Tuning the electrical and dielectric properties of Na0.5Bi0.5TiO3 perovskite by chemical doping** Yang, Fan	MD_26	**High-throughput workflow for the discovery and characterisation of organic cages** Greenaway, Rebecca	MEO_26	**Exploring the colour tunability and stability of organolead halide perovskite nanocrystals** McKenna, Barry	SM_26	**A new, coordination-polymers, approach to integrating semi-conducting properties with DNA materials** Houlton, Andrew	NC_26	**A new template free strategy to fabricate nanoreactors with internal porosity and its impact on the material properties** Distaso, Monica
11:00	Refreshments										
		Energy & Environment		**Materials Design**		**Magnetic, Electronic & Optical Materials**		**Soft Matter & Biomaterials**		**Nanomaterials**	
11:40	Contributed oral	EE_27	**Monolithic metal-organic framework: towards breaking DOE targets for methane uptake** Moghadam, Peyman Z.		**A Rational Design of Porous Organic Cages: A Computational Study of Xe/Kr Selectivity and C60 Fullerene Encapsulation** Miklitz, Marcin	MEO_27	**Photoinduced switching of a ferrocene-containing rotaxane crystal** Horie, Masaki		**DNA-based intercalating drug delivery systems** Spain, Sebastian	NC_27	**Spatially orthogonal chemical functionalisation of a hierarchical pore network for catalytic cascade reactions** Parlett, Christopher
12:00	Contributed oral	EE_28	**Advancements in solar-thermochemical air separation based on perovskite oxides** Vieten, Josua	MD_28	**Anionic silicate organic frameworks constructed from hexacoordinated silicon centers** Roeser, Jérôme	MEO_28	**New fluorescent materials based on sulfur anions** Patureau, Pascaline	SM_28	**Superstructure-Induced Chirality in 3D-Ordered Liquid Crystals of Achiral Molecules** Ungar, Goran		**Developing artificial proteins for magnetite nanoparticle production** Rawlings, Andrea
12:20	Contributed oral	EE_29	**3D design and additive manufacturing of photoactive polymers for solar energy harvesting** Zhakeyev, Adilet	MD_29	**Insight into metal-organic framework formation through in situ diffraction** Wu, Yue	MEO_29	**Polymerisable squaramide receptors for anion binding and sensing in aqueous media** Manesiotis, Panagiotis	SM_29	**Probing the surface chemistry of self-assembled peptide hydrogels using solution-state NMR spectroscopy** Wallace, Matthew		**Studying the Effects of Metallic Nanoparticles on Conversion Negative Electrode Materials using Solid-State NMR** Johnstone, Karen
12:40	Time for delegates to move between theatres										
12:50	**PL07: Stimuli-Responsive Smart Soft Materials Fabricated under Nonequilibrated Conditions** Aida, Takuzo										
13:50	Chairs' summary										
14:00	Close of conference										