The programme of Spring school

Day 1				
14:45	15:00	Welcome to UPCON Spring School	Time	
			[h:m]	
15:00	16:00	Chun-Hua Yan - Controllable Synthesis of High-Quality Rare Earth-Based	1:00	
		Nanocrystals		
16:15	17:15	Dayong Jin - Controlling upconversion nanocrystals for emerging	1:00	
		applications		
17:15	17:30	Coffee break (coffee/tea, cookies)		
17:30	18:30	Claude Piguet - Upconversion using linear optics in molecular lanthanide	1:00	
		complexes: from dream to reality		
Day 2				
9:00	10:00	Hans Tanke - Upconverting phosphors as labels for low cost lateral flow	1:00	
		assays to monitor infectious diseases		
10:15	11:15	Mary T. Berry - Development of Quantitative Mechanistic Models for Up-	1:00	
		conversion in Lanthanide-doped Nanomaterials		
11:15	11:30	Coffee break (coffee/tea, cookies)	0:15	
11:30	12:30	Frank C.J.M. van Veggel - On Ln3+ based core-shell nanoparticles as a	1:00	
		method to increase quantum yield of non-linear processes		
12:30	13:30	Lunch break	1:00	
13:30	14:30	Markus Haase - Growth mechanisms of NaREF4 nanocrystals	1:00	
14:45	15:45	Guanying Chen - Photon Upconversion Nanomaterials: Technologies and	1:00	
		Biomedical Applications		
15:45	16:00	Coffee break	0:15	
16:00		Short presentations from participants (max.5 min 1-2 slides per participant)	~3:00	
20:00	22:00	Joined school dinner (Novocaina restaurant)		
Day 3				
9:00	10:00	Emory M. Chan - Combinatorial and computational strategies for the high-	1:00	
		throughput design of upconverting nanoparticles		
10:00	11:00	Daniel Jaque – Luminescent nanoparticles for in vivo imaging	1:00	
11:00	11:15	Coffee break (coffee/tea, cookies)	0:15	
11:15	12:15	Steve Smith - Controlling Energy Transfer Upconversion by Engineering the	1:00	
		Photonic Density of States		
12:15	13:15	Tero Soukka - Upconverting nanophosphors as reporters in multiplexed	1:00	
		immunoassay		
13:15	13:30	Discussion and End of School		
13:30	14:30	Lunch break	1:00	
14:30	18:00	Trip to labs and experimental session		

LIST OF ABSTRACTS

WITH PRESENTING AUTHORS

School presentations (chronological order)

Presentation No.	First Name	Last Name	Abstract title
SP1	Sangeetha	Balabhadra	OPTICAL THERMOMETRY BASED ON THE LANTHANIDE LUMINESCENCE OF INORGANIC NANOSYSTEMS
SP2	Alkit	Beqiraj	CO-DOPING UPCONVERSION NANOPARTICLES WITH TRANSITION METAL IONS
SP3	Shashi	Bhuckory	MORPHOLOGICAL AND OPTICAL CHARACTERIZATION OF PEGYLATED-Er ³⁺ ,Yb ³⁺ - DOPED NaGdF ₄ UPCONVERSION NANOPARTICLES FOR FRET
SP4	Dmitry	Busko	SPECTROSCOPIC CHARACTERIZATION OF BROAD SPECTRUM OF UPCONVERSION MATERIALS
SP5	Oleksii	Dukhno	OPTIMIZING UPCONVERTING NANOPARTICLES FOR FRET-BASED ASSAYS
SP6	Zayakhuu	Gerelkhuu	INFLUENCE OF Cr ³⁺ CONCENTRATION ON LUMINESCENCE PROPERTIES OF NaLuGdF ₄ :Cr ³⁺ /Er ³⁺ UPCONVERSION SYSTEM
SP7	Bahman	Golesorkhi	SYNTHESIS AND CHARACTERISATION OF VISIBLE/NEAR INFRARED LUMINESCENT ERBIUM COORDINATION COMPLEXES
SP8	Bettina	Grauel	Nd AS SENSITIZER IN NdYF4:Yb,Er,Nd TRI-DOPED UPCONVERSION NANOCRYSTALS
SP9	Justyna	Grzelak	ENERGY TRANSFER BETWEEN UP-CONVERTING NANOCRYSTAL AND ORGANIC POLYMER
SP10	Katarzyna	Zawisza	UP-CONVERTING Ca ₃ (PO ₄) ₂ NANOPARTICLES ACTIVATED WITH Er ³⁺ AND Yb ³⁺ ION PAIRS FOR BIOAPPLICATIONS
SP11	Cynthia Elisabeth	Kembuan	CYTOTOXICITY OF BIOCOMPATIBLE FUNCTIONALIZED HYDROPHILIC UPCONVERSION NANO-PARTICLES IN IN VITRO EXPERIMENTS
SP12	Uliana	Kostiv	SILICA-COATED UPCONVERSION LANTHANIDE NANOPARTICLES: THE EFFECT OF CRYSTAL DESIGN ON MORPHOLOGY, STRUCTURE AND OPTICAL PROPERTIES
SP13	Agnieszka	Kowalczyk	RATIOMETRIC DETECTION OF MONOCLONAL ANTIBODIES WITH LIPOPOLYSACCHARIDE FUNCTIONALIZED UPCONVERTING NANOPARTICLES
SP14	Sergey	Kuznetsov	UP-CONVERSION LUMINESCENCE OF DIAMOND FILMS WITH INTEGRATED La _{0.895} Yb _{0.0875} Er _{0.0175} F ₃ NANOPARTICLES
SP15	Tero	Laihinen	NaYF ₄ :Yb ³⁺ ,R ³⁺ UP-CONVERSION LUMINESCENCE MATERIALS

			ALKALINE-EARTH FLUORIDE NANOPARTICLES
SP16	Giacomo	Lucchini	ACTIVATED WITH Ln ³⁺ IONS FOR MULTIMODAL
			BIOIMAGING
SP17	Sebastian	Mackowski	FLUORESCENCE ENHANCEMENT AND ENERGY
51 17	Scoustian	INIGERO WSIAI	PROPAGATION IN PLASMONIC NETWORKS
SP18	Manoi Kumar	Mahata	REMOTE TEMPERATURE SENSING BELOW 300 K
0.10			BY YVO4:Er ³⁺ /Yb ³⁺ UPCONVERTING PARTICLES
			UP-CONVERTING RARE EARTH DOPED
SP19	Łukasz	Marciniak	PHOSPHATES FOR NON-CONTACT
			TEMPERATURE SENSING
		Meijer	LIPID ENCAPSULATION AND RUTHENIUM
SP20	Michael		
		_	NANOPARTICLES (UCNPS) FOR PHOTO-
SP21	Diego	Mendez-	DENGUE MIRNA BIUSENSOR BASED UN UCNPS
		Gonzalez	
6022	Matthias	Mickert	
5P22	Matthias		PHOTON-OPCONVERTING NANOPARTICLES ON A
כרסס	Małgorzata	Miciak	LUMINESCENCE IN Vh ³⁺ Th ³⁺ CO DODED Case
3F23	IVIAIguizata	IVIISIAK	
SP24	Melissa-Jane	Monks	NANOPARTICIES PREPARED VIA SOL GEL
			SYNTHESIS
			IMPROVED BACKSCATTERED LIGHT REJECTION IN
SP25	Monirehalsadat	Mousavi	UPCONVERTING NANOPARTICLE-BASED
			BIOIMAGING
	Emilia	Palo	UP-CONVERSION MATERIALS TO ENHANCE
SP26			SOLAR CELL CONVERSION
		Pilch	ENERGY TRANSFER UPCONVERSION
6007			ENHACEMENT IN HETEROGENOUSLY RARE
SP27	Aleksandra		EARTH DOPED ACTIVE-CORE @ ACTIVE-SHELL
			(ACAS) NANOPARTICLES
6029	Daria	Dominovo	THEORETICAL MODELING OF UPCONVERSION
3P28	Daria	Pominova	LUMINESCENCE PLASMON ENHANCEMENT
			APPLICATION OF UPCONVERTING Nd/Yb CO-
SP29	Surya	Prakash Tiwari	DOPED YPO4 NANOPARTICLES FOR SECURITY
			FUNCTION
SP30	Aleksander	Ziecina	UP-CONVERSION PROCESS IN BLUE EMITTING
51 50		Liçonia	SrTiO ₃ :Tm ³⁺ /Yb ³⁺ NANOPARTICLES
	Katarzyna	Prorok	UP- AND DOWN-CONVERSION LUMINESCENCE
SP31			OF Tb ³⁺ /Yb ³⁺
			CODOPED Y ₂ O ₃ NANOPARTICLES
			FLUORIDE MATRICES DOPED BY LANTHANIDE
SP32	Dominika	Przybylska	IONS SHOWING
			UP - CONVERSION PHENOMENA
	_		NOVEL FLUOROLYTIC SOL-GEL SYNTHESIS OF
SP33	Benjamin	Ritter	RARE EARTH DOPED ALKALINE EARTH METAL
			FLUORIDE NANOPARTICLES

SP34	Paloma	Rodríguez- Sevilla	IN SITU SINGLE PARTICLE POLARIZED SPECTROSCOPY OF OPTICALLY TRAPPED UPCONVERTING NANORODS
SP35	Jarosław	Rybusiński	MAGNETIC PROPERTIES OF UP-CONVERTING RARE-EARTH ORTHOVANADATES RELATED TO PARTICLE SIZE AND DOPANT CONCENTRATION
SP36	Maysoon	Saleh	UCNP AS FLUORESCENT DETECTORS FOR THE SENSITIVE AND SELECTIVE DETECTION OF TRANSITION METAL IONS IN AQUEOUS SOLUTIONS
SP37	Mirkomil	Sharipov	FUNCTIONALIZATION OF LANTHANIDES-DOPED UPCONVERSION NANOPARTICLES FOR BIOIMAGING
SP38	Artur	Tymiński	RARE EARTH PHOSPHATE NANOCRYSTALS (RE = Y ³⁺ , La ³⁺ , Gd ³⁺ , Lu ³⁺) DOPED BY Ln ³⁺ IONS SHOWING UP-CONVERSION LUMINESCENCE
SP39	Edyta	Wysokińska	CYTOTOXICITY OF BARE NaGdF ₄ :Yb ³⁺ :Er ³⁺ NANOCRYSTALS ON MACROPHAGES
SP40	Nestor	Estebanez	FUNCTIONAL POLYMER-CAPPED UPCONVERSION NANOPARTICLES
SP41	Sebastian	Radunz	EFFECT OF THE DISSOLUTION OF FLUORIDE UCNPS ON THEIR OPTICAL PROPERTIES
SP42	Magdalena	Duda	ENERGY TRANSFER BETWEEN ORGANIC DYES ("ANTENNA") ATTACHED TO THE SURFACE OF UPCONVERTING NANOPARTICLES
SP43	Robert	Tomala	THE STUDY OF UP-CONVERSION EMISSION OF Y ₂ Si ₂ O ₇ :Nd ³⁺ NANOCRYSTALS