

- Session I** **General issues**
Session II **Industrial applications of nanotechnologies**
Session III **Physics & Electronics**
Session IV **Nano-Bio-Med & Safety**
Session V **Synthesis & characterization of nanomaterials**
Session VI **Education & Regulation**
Session VII **Carbon nanomaterials**

	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
09:00-10:30		II.1 Industrial, Aula	I.3 General, Aula	V.3 Synthesis, Aula VII.1 Carbon, Room 2
10:30-11:00		Coffee break		
11:00-12:30		III.1 Physics, Aula IV.1 Biomed, Room 2	V.1 Synthesis, Aula VI.1 Education, Room 2	V.4 Synthesis, Aula VII.2 Carbon, Room 2
12:30-14:00		Lunch		CLOSING, Aula Lunch
14:00-15:30	I.1 General, Aula	III.2 Physics, Aula IV.2 Biomed, Room 2	V.2 Synthesis, Aula VI.2 Education, Room 2	
15:30-16:00	Coffee break		-	
16:00-18:15	I.2 General, Aula	Poster session (15:30 – 17:30)	Out-of-town session (old tram + boat cruise)	
18:15-23:00	Welcome party “Willa Ogrody” (18.30-22:00)	Conference dinner “Castle” (19:00-23:00)	Panel discussion “Nanotechnology Foresight” (16:00-20:00)	

SESSION I – GENERAL ISSUES (AULA) CHAIR: RYSZARD KALEŃCZUK				
	Tuesday	14:00-14:15	OPENING	
I.1	Tuesday	14.15-15.00	Krzysztof J. KURZYDŁOWSKI	PERSPECTIVES FOR INTENSIFYING RESEARCH AND DEVELOPMENT IN POLAND.
I.1	Tuesday	15:00:15:30	Matthias WERNER	SELECTED EXAMPLES FOR APPLICATIONS, PROPERTIES AND ECONOMICAL ASPECTS OF NANOTECHNOLOGIES WITH A FOCUS ON CARBON BASED MATERIALS
I.1	Tuesday	15:30:16:15	Jerzy L. LANGER	OUR APPROACHES TO NANOTECHNOLOGY FOR TECHNIQUES, HOUSEHOLD, HEALTHCARE, SAFETY AND DEFENSE
SESSION I – GENERAL ISSUES (AULA) CHAIR: JAN SZMIDT				
I.2	Tuesday	16:45-17:30	Grzegorz SCHROEDER	CHEMISTRY FOR NANOTECHNOLOGY
I.2	Tuesday	17:30-18.00	Stefan JURGA	NANOTECHNOLOGY FOR BIOMEDICAL APPLICATIONS

I.2	Tuesday	18:00-18:15	Jaroslav GROBELNY	NANOPARTICLES AS BUILDING BLOCKS OF HYBRID ORGANIC/INORGANIC MEMORY ELEMENTS
SESSION II – INDUSTRIAL (AULA) CHAIR: HELMUT SCHMID				
II.1	Wednesday	09:00-09:30	Daniel A. GOTTSCHALD	PROJECT NANOFORCE
II.1	Wednesday	09.30-09.45	Helmut SCHMID	NANOSILVER-SYSTEM-TECHNOLOGY - FROM RESEARCH TO APPLICATION
II.1	Wednesday	09.45-10.00	Stefan MENDE	CHOICE OF THE RIGHT MACHINE DEPENDING ON THE BINDING ENERGY AND ACHIEVABLE GRINDING RESULT
II.1	Wednesday	10:00-10.30	INDUSTRIAL ROUND TABLE DISCUSSION. KEY PARTICIPANTS: H. SCHMID, D.A. GOTTSCHALD, P. HOMA, M. WERNER, S. MENDE, J. DROZDZAL	
SESSION III – PHYSICS & ELECTRONICS (AULA) CHAIR : ANNA PIOTROWSKA				
III.1	Wednesday	11:00-11:30	Herbert PFNUER	NANOPHYSICS CLOSE TO THE ULTIMATE LIMIT
III.1	Wednesday	11:30-12:00	Tomasz STOBIECKI	CO NOWEGO W SPINTRONICE
III.1	Wednesday	12:00-12:15	Wojciech KOCZOROWSKI	FORMATION AND CHARACTERIZATION OF 1D AND 2D BA SURFACE STRUCTURES ON THE GE (100) SURFACE
III.1	Wednesday	12:15-12:30	Martin KIRCHNER	WHY DO I NEED NANO LITHOGRAPHY FOR MY RESEARCH?
SESSION IV – BIOMEDICINE & SAFETY (ROOM 2) CHAIR: WOJCIECH WASOWICZ				
IV.1	Wednesday	11:00-11:15	Maciej STĘPNIK	CONTROVERSY OVER TOXICITY OF NANOSILICA
IV.1	Wednesday	11:15-11:30	Agnieszka SIUPA	NANOSUSPENSION CHARACTERISATION: APPLICATION OF NTA TO BIONANOMATERIALS
IV.1	Wednesday	11:30-11:45	Mauro COMES-FRANCHINI	METALLIC NANOPARTICLES: ORGANIC COATING, POLYMERIC ENTRAPMENT AND THERANOSTIC APPLICATIONS IN NANOMEDICINE
IV.1	Wednesday	11:45-12:00	Bartosz BARTOSIEWICZ	DETECTION OF SINGLE OPTICALLY TRAPPED BACTERIAL CELL USING SURFACE ENHANCED RAMAN SPECTROSCOPY
IV.1	Wednesday	12:00-12:15	Thomas NEICKE	QUANTITATIVE CHARACTERIZATION OF BIOMATERIALS AND THEIR INTERACTION WITH LIVING CELLS BY AFM
IV.1	Wednesday	12:15-12:30	Magdalena OĆWIEJA	WPLYW STABILIZATORÓW ORGANICZNYCH I NIEORGANICZNYCH NA WŁAŚCIWOŚCI BIOBÓJCZE NANOCZĄSTEK SREBRA ORAZ EFEKT WZMOCNIENIA W POMIARACH SERS
SESSION III – PHYSICS & ELECTRONICS (AULA) CHAIR: WOJCIECH SADOWSKI				
III.2	Wednesday	14:00-14:30	Bogdan IDZIKOWSKI	NANOKRYSTALICZNE STRUKTURY PARAMAGNETYKÓW PAULIEGO
III.2	Wednesday	14:30-15:00	Marcin SYPEREK	NANOSECOND AND SUB-NANOSECOND TIME-RESOLVED SPECTROSCOPY OF LOW-

				DIMENSIONAL QUANTUM STRUCTURES
III.2	Wednesday	15:00-15:30	Marcin MOTYKA	FOURIER TRANSFORMED INFRARED SPECTROSCOPY IN THE MID AND LONG WAVELENGTH SPECTRAL RANGE
III.2	Wednesday	15:30-15:45	Elham JAFARI-KHAMSE CANCELLED	THE EFFECT OF LAYER THICKNESS ON MAGNETIC (CoCrPt) _{97.3} Nb _{2.7} /Cr PROPERTIES AND MORPHOLOGY OF THIN FILMS
SESSION IV – BIOMEDICINE & SAFETY (ROOM 2) CHAIR: WITOLD LOJKOWSKI				
IV.2	Wednesday	14:00-14:30	Michael GIER SIG	MULTIFUNCTIONAL NANOMATERIALS AND THEIR APPLICATION IN THE FIELD OF BIOMEDICINE
IV.2	Wednesday	14:30-15:00	Artur PODHORODECKI	ION-ION INTERACTION AS A TOOL FOR CONTROLLING SPECTRAL AND TEMPORAL PROPERTIES OF ULTRASMALL INORGANIC OPTICAL MARKERS BASED ON LANTHANIDES EMISSION FOR BIO-MEDICAL APPLICATIONS
IV.2	Wednesday	15:00-15:15	Agnieszka SZADKOWSKA	BIODEGRADABLE NANOCOMPOSITES
IV.2	Wednesday	15:15-15:30	Anna MARZEC	BIOCHEMICAL METHODS OF SYNTHESIS OF METAL NANOPARTICLES AS A PRO-ECOLOGICAL ALTERNATIVE TO TRADITIONAL MEANS
SESSION I – GENERAL ISSUES (AULA) CHAIR: RYSZARD CZAJKA				
I.3	Thursday	09:00-09:45	Marcel H. VAN DER VOORDE	EUROPEAN ROADMAP FOR NANOTECHNOLOGY 2020
I.3	Thursday	09:45-10:00	Jaroslav PIEKARSKI	NANONAUKI I NANOTECHNOLOGIE W HORIZON 2020
I.3	Thursday	10:00-10:15	Rafal PELKA	SEPARATION OF FRACTIONS OF NANOCRYSTALLINE IRON WITH DETERMINED SIZES OF CRYSTALLITES AND THEIR NITRIDING
I.3	Thursday	10:15-10:30	Adam ŁASZCZ	FABRICATION OF ELECTROCHEMICAL NANO-ELECTRODE SENSOR USING FOCUSED ION BEAM TECHNOLOGY
SESSION V – SYNTHESIS & CHARACTERISATION (AULA) CHAIR: JANUSZ RYCZKOWSKI				
V.1	Thursday	11:00-11:30	Jean-Francois HOICHEPIED	DO IT IN WATER ! AQUEOUS (CO)PRECIPITATION PROCESSES FOR NANOPARTICLES AND NANOSTRUCTURED PARTICLES
V.1	Thursday	11:30-11:45	Ireneusz PIWOŃSKI	PREPARATION AND CHARACTERIZATION OF TITANIUM DIOXIDE COATINGS MODIFIED BY PHOTOCHEMICAL GROWTH OF SILVER NANOPARTICLES FOR SELF-CLEANING AND ANTIBACTERIAL APPLICATIONS
V.1	Thursday	11:45-12:00	Magdalena GAJDA-RĄCZKA	INFLUENCE OF FUNCTIONALIZATION METHOD ON THE DEGREE OF TiO ₂ SURFACE COVERAGE WITH NOBLE METALS NANOPARTICLES
V.1	Thursday	12:00-12:30	Joanna	THE POTENTIAL OF NANOMATERIALS

			BENDYNA	FOR HYDROGEN STORAGE: PROGRESS, PROBLEMS AND PERSPECTIVES
SESSION VI – EDUCATION & REGULATION (ROOM 2) CHAIR: JOANNA SOBCZYK				
VI.1	Thursday	11:00-11:15	Dorota RUTKOWSKA- ŻBIK	NAUCZANIE NANOTECHNOLOGII
VI.1	Thursday	11:15-11:30	Maria ZIELECKA	NANOTECHNOLOGIES – STANDARDISATION ISSUES
VI.1	Thursday	11:45-12:00	Tomasz STĘPIEŃ	SCOPE AND STRATEGIES OF NANOTECHNOLOGIES ASSESSMENT
VI.1	Thursday	12:15-12:30	Lidia ZAPÓR	NANOTECHNOLOGIE A BEZPIECZEŃSTWO I HIGIENA PRACY
VI.1	Thursday	12:15-12:30	Michał ANDRIJEWSKI	REGULACJE PRAWNE W UNII EUROPEJSKIEJ DOTYCZĄCE NANOMATERIAŁÓW
SESSION V – SYNTHESIS & CHARACTERISATION (AULA) CHAIR: JAROSŁAW GROBELNY				
V.2	Thursday	14:00-14:30	Witold ŁOJKOWSKI	MICROWAVE SOLVOTHERMAL SYNTHESIS OF NANOPARTICLES
V.2	Thursday	14:30-15:00	Sergey YATSUNENKO	PERSPECTIVE LUMINESCENT NANOMARKERS BASED ON RARE- EARTH DOPED OXIDE MATRIXES: FROM TECHNOLOGY TO APPLICATION
V.2	Thursday	15:00-15:15	Jarosław KASZEWSKI	DWA SPOSOBY KRYSTALIZACJI – OTRZYMYWANIE KOMPOZYTU ZRO ₂ :TB/CNTS METODĄ SOLWOTERMALNĄ MIKROFALOWĄ
V.2	Thursday	15:15-15:30	Kinga KĄDZIOLA	THE PHOTOACTIVITY OF TITANIUM DIOXIDE COATINGS WITH SILVER NANOPARTICLES PREPARED BY SOL- GEL AND REACTIVE MAGNETRON SPUTTERING METHODS – COMPARATIVE STUDIES
SESSION VI – EDUCATION & REGULATION (ROOM 2)				
VI.2	Thursday	14:00-15:30	ROUND TABLE ON REGULATION. PARTICIPANTS: J. SOBCZYK, M. ZIELECKA, M. ANDRIJEWSKI, L. ZAPÓR, T. STĘPIEŃ	
SESSION V – SYNTHESIS & CHARACTERISATION (AULA) CHAIR: SERGEY YATSUNENKO				
V.3	Friday	09:00-09:30	Roxana PITICESCU	NEW APPROACHES IN THE CHEMICAL SYNTHESIS OF NANOMATERIALS
V.3	Friday	09:30-09:45	Michał CICHOMSKI	PREPARATION AND TRIBOLOGICAL CHARACTERIZATION OF ULTRATHIN LAYERS
V.3	Friday	09:45-10:00	Monika MICHALSKA	SYNTHESIS AND STUDIES OF NOVEL ANODE MATERIAL FOR LIBS – LI ₄ Ti ₅ O ₁₂ DECORATED BY Ag NANOPARTICLES
V.3	Friday	10:00-10:15	Patrycja ŁYCKOWSKA	THE POSSIBILITY OF USING FTIR TECHNIQUE FOR ASSESSMENT THE PHOTOCATALYTIC DEGRADATION OF VOCs
V.3	Friday	10:15-10:30	Wojciech STĘPNIOWSKI	FABRICATION AND CHARACTERIZATION OF HIGHLY- ORDERED HEXAGONALLY ARRANGED ARRAYS OF NANOPOROUS ANODIC ALUMINA
SESSION VII – CARBON NANOMATERIALS (ROOM 2) CHAIR: JAN F. BIERNAT				
VII.1	Friday	09:00-09:30	Michał	RECENT ADVANCES IN SYNTHESIS

			BYSTRZEJEWSKI	AND APPLICATIONS OF CARBON - ENCAPSULATED MAGNETIC NANOPARTICLES
VII.1	Friday	09:30-09:45	Stephane NEUVILLE	CARBON NANO-MATERIAL RAMAN SIGNAL DEPENDENCE ON LASER LIGHT POLARIZATION
VII.1	Friday	09:45-10:00	Stephane NEUVILLE	COUPLED DOUBLE RESONANCE RAMAN THEORY ON D DISORDER PEAK OF GRAPHENE AND DLC
VII.1	Friday	10:00-10:15	Iwona PEŁECH	THE USE OF MICROWAVE-ASSISTED ACID DIGESTION METHOD FOR THE MODIFICATION OF MULTI WALLED CARBON NANOTUBES
VII.1	Friday	10:15-10:30	Anna JĘDRZEJEWSKA	CHLORINATION METHOD FOR PURIFICATION AND FUNCTIONALIZATION OF MULTI-WALLED CARBON NANOTUBES
SESSION V – SYNTHESIS & CHARACTERISATION (AULA) CHAIR: MARIA ZIELECKA				
V.4	Friday	11:00-11:15	Konstantinos RAFTOPOULOS	POLYURETHANE – POSS HYBRIDS WITH POSS ALONG THE HARD SEGMENTS. A STUDY ON MORPHOLOGY AND SEGMENTAL DYNAMICS
V.4	Friday	11:15-11:30	Maciej PSARSKI	EPOXY RESIN NANOCOMPOSITES AS BUILDING MATERIALS FOR SUPERHYDROPHOBIC COATINGS
V.4	Friday	11:30-11:45	Wojciech ZATORSKI	ZASTOSOWANIE GLINOKRZEMIANÓW WARSTWOWYCH W CELU ZMNIEJSZENIA PALNOŚCI ELASTYCZNYCH PIANEK POLIURETANOWYCH
V.4	Friday	11:45-12:00	Agnieszka GADOMSKA	OBTAINING OF POLY(LACTIC ACID) NANOSPHERES
V.4	Friday	12:00-12:15	Michał WOJASIŃSKI	COMPARATIVE STUDIES OF ELECTROSPINNING AND SOLUTION BLOW SPINNING AS A PROCESS FOR PRODUCTION OF PLLA NANOFIBERS
V.4	Friday	12:15-12:30	Marek NOWICKI	BADANIE WPLYWU PROMIENIOWANIA UV NA MODYFIKOWANY POLI(KWAS MLEKOWY
SESSION VII – CARBON NANOMATERIALS (ROOM 2) CHAIR: MICHAŁ BYSTRZEJEWSKI				
VII.2	Friday	11:00-11:30	Marek SZYMOŃSKI	GRAPHENE NANORIBBONS ON SOLID SURFACES
VII.2	Friday	11:30-11:45	Jan F.BIERNAT	ARYLOWANE NANORURKI WĘGLOWE JAKO ELEKTRYCZNE PRZEWODNIKI ŁĄCZĄCE CENTRUM AKTYWNE ENZYMU Z ELEKTRODĄ W OGNIWIE
VII.2	Friday	11:45-12:00	Anna WALKIEWICZ	BREAKING FRONTIERS IN GRAPHENE CHARACTERISATION TECHNIQUES
VII.2	Friday	12:00-12:15	Stanisław BINIAK	INFRARED SPECTROSCOPY OF CARBON MATERIALS: CHANGES IN CHEMICAL STRUCTURE OF SURFACE DURING HEAT TREATMENT
VII.2	Friday	12:15-12:30	Małgorzata WOJTONISZAK	NANOKOMPOZYTY TiO ₂ /GRAFEN I ICH WŁAŚCIWOŚCI FOTOKATALITYCZNE

VII.2	Friday	12:30-12:45	Karolina URBAS	SYNTEZA NANKOMPOZYTU TLENEK GRAFENU – PALLAD
CLOSING				