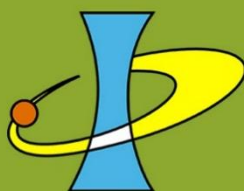
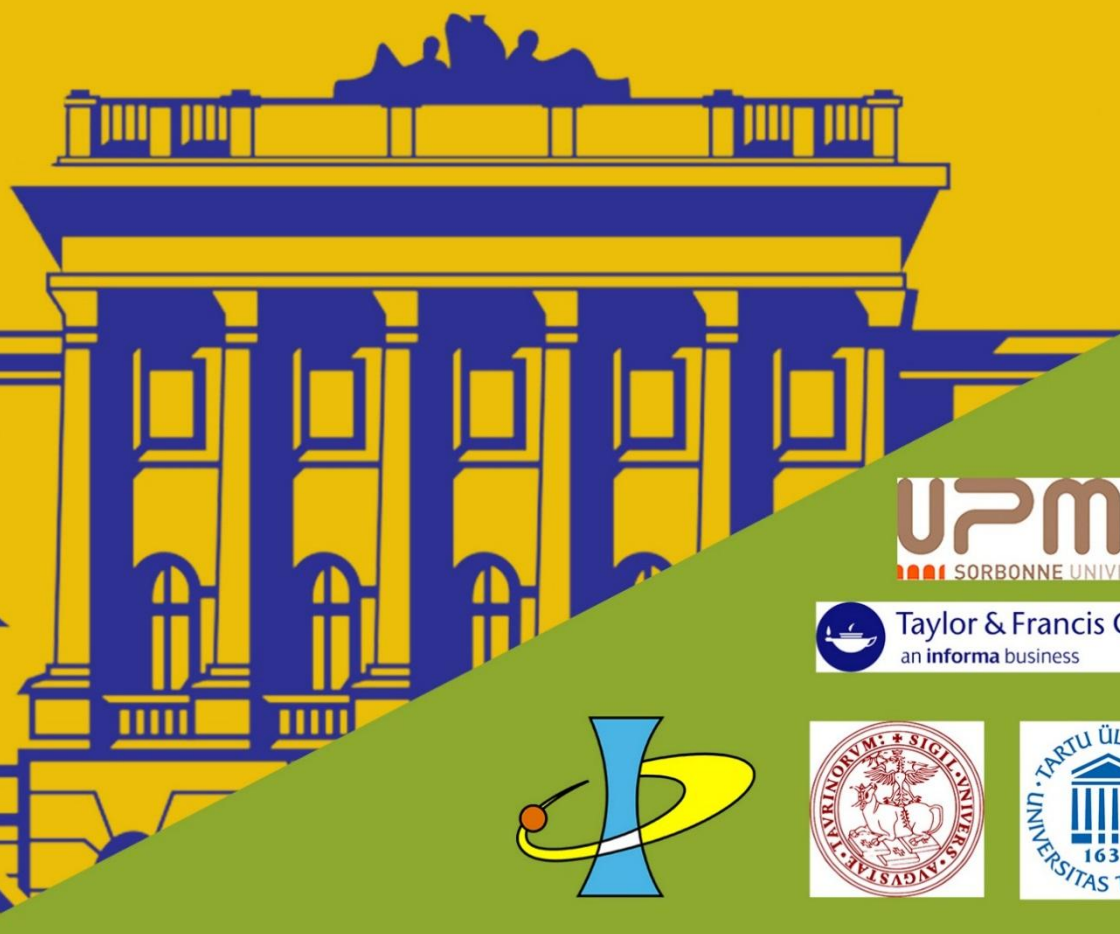


# Lviv Polytechnic National University

August 27-30  
2019

# NANO



Business Support on Your Doorstep

## Dear participants!

We are glad to welcome you at our conference NANO-2019 in Lviv!

Please note that the NANO-2019 conference will be held in 2 different locations.

The 1<sup>st</sup> day, August 27, 2019 the **Plenary session** of NANO-2019 will be held on 2/4 Karpinskoho Street, **Building №1** Conference Hall.

All other days (oral + poster sessions) will be held in 12 Stepan Bandera Street, but we will have two parallel sessions. One session will be held in Conference Hall and second in Lecture Hall №226.

Please find your session in the Programme.

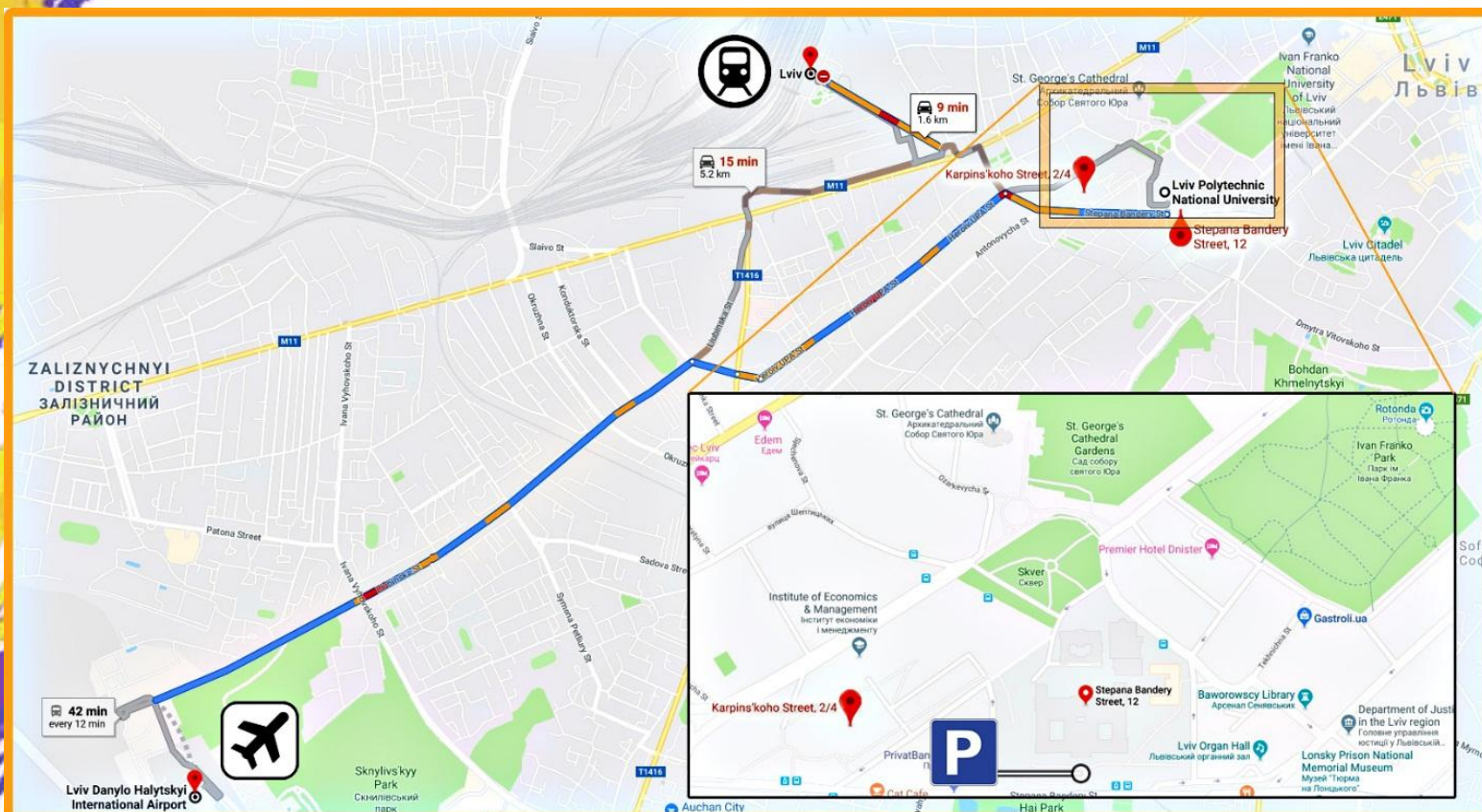
Mainly participants will arrive at the conference via Lviv airport or train station. So, we prepared for you a map and instructions below. Both locations (2/4 Karpinskoho Street [1<sup>st</sup> photo] and 12 Stepan Bandera Street [2<sup>nd</sup> photo]) are close to each other, so if you will arrive in Lviv via airport and want to use public transport you should take a bus № 29 and move to the Stepana Bandery station. If you arrived at the train station you will have to walk to the tram stop on Pryvoksalna Street (about 10 minutes) and then take the tram №1 for moving (2 stops) to the St. Polytechnic university.



2/4 Karpinskoho Street



12 Stepan Bandera Street





## Speakers of Plenary session

Dear participants of the conference, we draw your attention that on the day of the opening of the conference, on August 27, after the plenary session, the national competition of startups "Innovation-2019" will begin. This event will be held at 12 Stepan Bandera Street, conference hall of the main building of Lviv Polytechnic National University at 14:00. This event will feature:

### Session 1 – Innovation strategy for supporting Science&Business:

- General Director, Directorate of Science of Ukraine, Ministry of Education and Science of Ukraine, Dmytro Cheberkus
- Director at Ukrainian Startup Fund, Pavlo Kartashov
- Welcome greetings from Stepan Kuybida, Head of Department of Industrial Policy of Lviv Regional State Administration
- Head of the National Fund of Research, Academician of the NAS of Ukraine, Prof. Leonid Yatsenko
- Innovation and Technology Transfer Directorate of Ministry of Education and Science of Ukraine, Maryna Zenova

### Session 2 – The innovative ecosystem for business-science cooperation:

- CEO of Sophia Antipolis Foundation, Philippe Mariani (France)
- Chairman of SoftServe, Yaroslav Lyubinetz
- Head of Research, Development and Innovations Department, Neno Rakić (Croatia)
- Member of the Entrepreneur Berlin Startup Community, Daniel Jach (Berlin)
- Hi-Tech Consultants, Aleksandr Bakowski (Poland)
- CEO of Nando Europe and Unboxed startup companies, Justin Taruska (Lithuania)

### Session 3 – Final Startups competition:

- Presentations of the 9 start-ups (winners of first cycle selections), choice for the best Start-up to receive the Travel grant

Alternatively, you can make an appointment with business or science representatives to attend this event by registering by the next link: <https://brokerage-event-innovation-2019.b2match.io/>

The plenary session will be held on August 27, 2019 at 2/4, Karpinskoho Street in the conference hall of Lviv Polytechnic National University, building # 1.

*Professor  
Dr. Christoph Lienau*



*Professor of Experimental Physics  
Institute of Physics,  
University of Oldenburg,  
Germany*

*Prof. Mingmei Wu*



*Professor in School of Chemistry,  
Sun Yat-Sen University,  
People's Republic of China*

*Dr. HdR Julien Cardin*



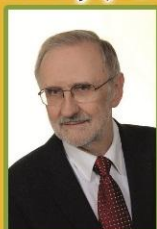
*Team leader from NIMPH  
at Research Center on Ions,  
Materials and Photonics (CIMAP),  
Laboratory, France*

*Professor  
Dr. Anatoli Popov*



*Leading research scientist,  
Institute of Solid State Physics,  
University of Latvia*

*Prof. Andrzej Suchocki*



*Institute of Physics of the Polish  
Academy of Sciences in Warsaw,  
Poland and at the Kazimierz Wielki  
University in Bydgoszcz, Poland*

*Prof. Alexander Nosich*



*Principal Scientist and Head,  
Laboratory of Micro and Nano Optics,  
Institute of Radiophysics and  
Electronics NAS of Ukraine*

*Professor  
Dr. Mustafa Yilmaz*



*Selcuk University,  
Department of Chemistry,  
Turkey.*

*Prof. Christophe Labbé*



*CIMAP Lab (Research Center on Ions,  
Materials and Photonics) at Caen  
in the engineering school ENSICAEN  
and University of Caen Normandy  
(UNICAEN), France*

## SPEAKERS OF ORAL SESSION



PhD student Marta Goliszek  
Maria Curie-Skłodowska  
University (Poland)  
«Modification and application of  
lignin in the synthesis of  
polymer materials»



Dr. Tetiana Afanasieva  
Institute of Physics NAS of  
Ukraine (Ukraine)  
«Graphene-like BeO  
nanoribbons on the  
Mo(112) surface»



Dr. Kira Kalinichenko  
Institute of BioColloidal  
Chemistry named after F. D.  
Ovcharenko NAS of Ukraine  
(Ukraine)  
«Nanocomposites on the base of  
biosolid for plant development»



Dr. Olga Ilinskaya  
Institute for Low  
Temperature Physics and  
Engineering NAS of  
Ukraine (Ukraine)  
«Coulomb effects in a  
thermally driven magnetic  
shuttle»



Dr. Maksym Barabashko  
B. Verkin Institute for Low  
Temperature Physics and  
Engineering NAS of Ukraine  
(Ukraine)  
«Calorimetric studies of  
MWCNTs at low temperatures»



Dr. Yuriy Azhniuk  
Institute of Electron  
Physics NAS of Ukraine  
(Ukraine)  
«Raman study of laser-  
induced formation of II–VI  
nanocrystals in Cd-doped  
As–S(Se) films»



Dr. Georgii Vasyliiev  
National Technical University of  
Ukraine «Igor Sikorsky Kyiv  
Polytechnic Institute» (Ukraine)  
«Green synthesis and  
characterization of silver  
nanoparticles using Grape  
pomace aqueous extract»



Assist. Prof. Dr.  
Volodymyr Sohatsky  
Taras Shevchenko National  
University of Kyiv  
(Ukraine)  
«Ferromagnetic-  
piezoelectric composites  
for spin electronics»

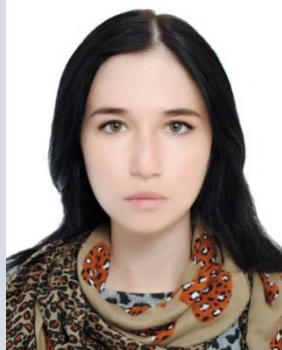


PhD student Volodymyr  
Tereshchuk  
National Technical University of  
Ukraine «Igor Sikorsky Kyiv  
Polytechnic Institute» (Ukraine)  
«Dynamics of anisotropic break-  
up in nanowires of FCC lattice  
structure»



PhD student Anastas  
Romansky  
G. V. Kurdyumov Institute  
for Metal Physics NAS of  
Ukraine (Ukraine)  
«Theoretical study of the  
structural changes in  
hydroxyapatite with the  
carbonate ions inclusions of  
A and B types»





PhD student Mariia Stupchuk  
Bogomoletz Institute of  
Physiology NAS of Ukraine  
(Ukraine)  
«Effect of intravenous treatment  
of silver nanoparticles on  
oocytes and cells of their  
follicular environment under  
conditions of experimental  
glomerulonephritis»



Assoc. Prof., Dr. Ruslan  
Mariychuk  
University of Presov  
(Slovakia)  
«Green synthesis and  
properties of gold  
nanoprisms prepared using  
extract of *Solidago  
Canadensis*»



Prof. Dr. Sergey Volkov  
Bogolyubov Institute for  
Theoretical Physics NAS of  
Ukraine (Ukraine)  
«Blocking DNA activity on the  
nano-scale in ion beam therapy  
of cancer cells»



Ph.D. student Milena  
Prowizor  
University of Lodz  
(Poland)  
«Tribological properties of  
Ti-DLC coatings modified  
by perfluoro and  
alkylphosphonic acids»



Dr. Nadтока Oksana  
Taras Shevchenko National  
University of Kyiv (Ukraine)  
«Hydrogel-Silver Nanoparticle  
Composites and Their  
Antibacterial Efficacy»



Prof. Dr. Mehmet  
KAHRAMAN  
Gaziantep University  
(Turkey)  
«SERS-based Biosensing  
on Plasmonic Silver  
Nanodomes»



Prof. Dr. Oleksandr Bediukh  
Taras Shevchenko National  
University of Kyiv (Ukraine)  
«Anomalously large absorption  
of electromagnetic radiation by  
nanometer gold film in the band  
26÷37.5 GHz»



PhD student Pavlo  
Torchyniuk  
[V. I. Vernadsky Institute of  
General and Inorganic  
Chemistry](#) NAS of Ukraine  
(Ukraine)  
«Synthesis and degradation  
of organic-inorganic  
compounds»



Prof. Dr. Anatoly Veklich  
Taras Shevchenko National  
University of Kyiv (Ukraine)  
«Regulation of biological  
processes with complexions of  
metals produced by underwater  
spark discharge»



Dr. Yuliia Bondar  
Institute of Environmental  
geochemistry NAS of  
Ukraine (Ukraine)  
Invited professor of  
Yeungnam University  
(Rep. Korea)  
«Synthesis of  
nanocomposite adsorbent  
based on potassium nickel  
ferrocyanide-loaded  
clinoptilolite-rich tuff for  
selective removal of Cs-137  
from contaminated waters»



Prof. Dr. Serhii G. Nedilko  
Taras Shevchenko National  
University of Kyiv (Ukraine)  
«Oxide nanostructured glass –  
ceramics luminescent  
composites for WLEDs»



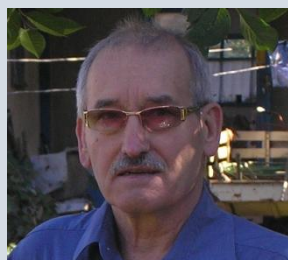
Ph.D Student Burcu  
TEZCAN  
University of Cukurova  
(Turkey)  
«Preparation of SBA-15  
Supported Pd Nanoparticles  
Using Supercritical Carbon  
Dioxide Deposition  
Method»



Prof. Dr. Sergiy Kurta  
Precarpathian National Vasyl  
Stefanyk University (Ukraine)  
«Nanostructural properties of  
extracts of the flavors and  
aromas substances natural  
coffee»



Prof. Dr. Borys V. Borts  
NSC «Kharkov Institute of  
Physics & Technology»  
NAS of Ukraine (Ukraine)  
«Physical and technological  
fundamentals of the  
connection of dissimilar  
metals in the solid phase by  
hot rolling in vacuum»



Prof. Dr. Eugene Ya. Glushko  
Institute of Semiconductor  
Physics NAS of Ukraine  
(Ukraine)  
«Resonant Metallic Quenching  
of Electromagnetic Field in  
Photonic Crystals: Physics and  
Applications»



Dr. Igor V. Shevchenko  
Institute of Bioorganic  
Chemistry and  
Petrochemistry NAS of  
Ukraine (Ukraine)  
«Influence of Solar Energy  
on Self-Organization of  
Water Molecules»



Prof. Dr. Erol Pehlivan  
Konya Technical University  
(Turkey)  
«Cr (VI)-contaminated water  
cleanup using biochar supported  
nanoscale zerovalent iron  
particles»



PhD student Mateusz  
Pawlak  
University of Warsaw  
(Poland)  
«Helical assemblies of  
nanoparticles with  
reconfigurable structures»



PhD student Nikita Liedienov  
International Center of Future  
Science of Jilin University  
(China)  
«Magnetotransport and  
dielectric properties of  
nonstoichiometric compositions  
of bismuth-containing rare-earth  
manganites with perovskite  
structure»



PhD student Olha  
Skurikhina  
Institute of Geotechnics  
SAS (Slovakia)  
«Preparation,  
characterization and  
physico-chemical  
properties of complex  
oxides»





Dr. Viktor Ivashko  
Yuriy Fedkovych Chernivtsi  
National University (Ukraine)  
«Monte Carlo modeling of spin  
crossover nanomaterial within  
Ising-like model»



PhD, DSc, Assoc. Prof.  
Mariusz Pietrzak  
Warsaw University of  
Technology (Poland)  
«Advantages and  
limitations of application of  
noble metal-based  
nanozymes of  
oxidoreductase activity»



PhD student Oleh Ohienko  
Oles Honchar Dnipro National  
University (Ukraine)  
«Luminescent properties of  
Europium (III) acetate  
monohydrate in the pores of  
synthetic opal»



PhD student Karolina Fila  
University of Maria Curie-  
Skłodowska (Poland)  
«Polymeric microspheres  
based on methacrylic  
thioester derivative of  
naphthalene and DVB -  
synthesis and properties»



PhD student Oleksandr  
Artykulnyi  
Taras Shevchenko National  
University of Kyiv (Ukraine)  
Institute for Nuclear Research  
(Russia)  
«Structure analysis of anionic  
surfactant – poly (ethylene  
glycol) micellar aggregates by  
neutron scattering»



PhD student Dominika Fila  
Maria Curie-Skłodowska  
University (Poland)  
«Recovery of metal ions  
from spent batteries using  
the ion exchange method»



Research fellow Andrii  
Semenov  
Odesa National I.I. Mechnikov  
University (Ukraine)  
«Hard-core–penetrable-shell  
model for effective electric  
parameters of random  
particulate systems»



PhD student Dariusz  
Chomicki  
Nicolaus Copernicus  
University in Toruń  
(Poland)  
«Influence of substituents  
on photo-physical  
properties of methacrylic  
polymers containing  
quinoline azo-dyes in side  
chain»



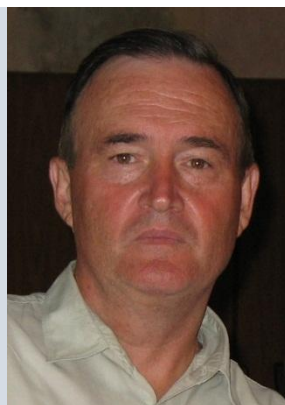
PhD student Khrystyna  
Levchenko  
Institute of Physics Polish  
Academy of Sciences (Poland)  
«Complementary techniques for  
characterization of various  
(Ga,Mn)(Bi,As) DMS thin  
layers»



Dr. habil. Sergii Sologub  
Institute of Physics NAS of  
Ukraine (Ukraine)  
«Increasing of specularly  
of surface scattering of  
conduction electrons via  
adsorption-induced  
transformation of surface  
electronic structure»



PhD student Malgorzata Nadolska  
Gdańsk University of Technology (Poland)  
«Synthesis and physicochemical properties of nanodiamonds with phosphonic groups»



Prof., Dr. Aleksander Parkhomenko  
National Science Center «Kharkiv Institute of Physics and Technology» NAS of Ukraine, V.N. Karazin Kharkiv National University (Ukraine)  
«Nano-level processes of welding the dissimilar materials in solid phase»



PhD Student N. Burak Kiremitler  
Erciyes University (Turkey)  
«Directed Assembly of Colloid Nanocrystals by Unique Uses of Electrospun Nanofibers and Their Electronic, Optoelectronic, Plasmonic Applications»



Prof. Dr. Myroslav Sanytsky  
Lviv Polytechnic National University  
«Effects of nanocrystalline calcium silicate hydrates and nanosilica on the hardening of Portland composite cements»



PhD student Ekaterina Vagapova  
Institute of Physics, University of Tartu (Estonia)  
«Laser spectroscopy of bi-phasic calcium phosphate powders doped by the  $\text{Nd}^{3+}$  ions»



Assoc. Prof. Dr. Mykhailo Derhachov  
Oles Honchar Dnipro National University (Ukraine)  
«Impedance spectroscopy of opal- $\text{KH}_2\text{PO}_4$  nanocomposite»



Prof. Dr. Vyacheslav Gorshkov  
National Technical University of Ukraine «Igor Sikorsky Kyiv Polytechnic Institute» (Ukraine)  
«Dynamics of anisotropic break-up in nanowires of FCC lattice structure»



Dr. Andriy Chmyrov  
Institute for Biological and Medical Imaging, Helmholtz Zentrum München (Germany)  
«Fluorescence super-resolution microscopy for mechanobiological studies of ultrasound-mediated cell junction interruption»



Dr. Andrii Panko  
F.D.Ovcharenko Institute of biocolloid chemistry NAS of Ukraine (Ukraine)  
«Catastrophic phenomena on marine slopes and artificial dams in presence of nanostructured iron aluminosilicates»



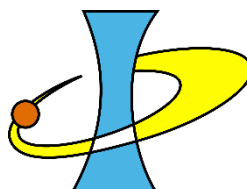
Dr. Elena Zhitlukhina  
Donetsk Institute for Physics and Engineering named after O.O.Galkin of the NAS of Ukraine and Vasyl' Stus Donetsk National University (Ukraine) «Perfect absorbing in quantum nanoscale networks»





**7th International Conference**  
**"Nanotechnologies and Nanomaterials" NANO-2019**  
will be held on the 27 - 30 August 2019 in Lviv Polytechnic National University  
Lviv, Stepan Bandery street, 12 and Karpinskoho street, 2/4  
**Conference program**  
**Tuesday, 27.08.2019**

<b>8:00-14:00</b>	<b>Registration (2/4 Karpinskoho Street, Building № 1 Conference Hall)</b>
9:30-9:45	Welcome greetings from <b>Dmytro Cheberkus</b> , Director General of the Directorate of Science, Deputy Minister of Education and Science of Ukraine
	Welcome greetings from <b>Prof. Bobalo Yuriy</b> , Rector of Lviv Polytechnic National University
	Welcome greetings from <b>Stepan Kuybida</b> , Head of Department of Industrial Policy of Lviv Regional State Administration
	Welcome greetings from <b>Acad. Anton Naumovets</b> , Vice-President of NAS of Ukraine
	The opening speech from <b>Acad. Leonid Yatsenko</b> , Academician of NAS of Ukraine
	Introduction speech from <b>Dr. Olena Fesenko</b> , Head of organizing Committee of NANO-2019
	<b>Plenary Section (Acad. Leonid Yatsenko)</b>
9:45-10:10	<b>Prof. Christoph Lienau</b> (Germany) <i>Coherent ultrafast charge and energy transfer processes in nanostructures</i>
10:10-10:35	<b>Prof. Mingmei Wu</b> (People's Republic of China) <i>"Controlled growth and applications of titania nanoparticles and nanoarrays"</i>
10:35-11:00	<b>Dr. habil. Cardin Julien</b> (France) <i>"First rare earth ions doped Si based down converter layers integration in an industrial Si solar cell"</i>
11:00-11:25	<b>Prof. Anatoli Popov</b> (Latvia) <i>"Point defect aggregation and metallic nanocolloid formation in ionic solids"</i>
11:25-11:50	<b>Prof. Andrzej Suchocki</b> (Poland) <i>"Near-Infrared Limit of Mn<sup>2+</sup> Emission in Solids"</i>
11:50-12:15	<b>Prof. Alexander Nosich</b> (Ukraine) <i>"Lasing on the nanoscale: electromagnetic engineering of microcavity lasers and plasmonic nanolasers on threshold"</i>
12:15-12:40	<b>Prof. Mustafa Yilmaz</b> (Turkey) <i>"Nanobasket, Calixarenes: in Biocatalysis Studies"</i>
12:40-13:05	<b>Prof. Christophe Labbé</b> (France) <i>"Rare earth doped semiconducting nanofilms for Si-based light-emitting devices"</i>
13:05-13:30	<b>Information session about Horizon 2020, COSME &amp; EEN Programmes</b>
<b>13:30-14:00</b>	<b>Coffee break and Conference photo</b>
<b>14:00-19:00</b>	<p style="text-align: center;"><b>International "INNOVATION – 2019" Forum</b>  <b>(12 Stepan Bandera Street, Conference Hall of the main building)</b></p> <p><i>Session 1 – Innovation strategy for supporting Science&amp;Business</i></p> <ul style="list-style-type: none"> <li>European integration and its impact on the development of innovation and SMEs growing</li> <li>EC Programmes for supporting the innovation and SMEs</li> <li>New initiatives of EC and Ukraine for support innovation and SMEs</li> <li>Building international bridges between Ukraine and the world: education, science, business</li> <li>Design of thinking and its influence on the science business cooperation</li> <li>Leadership and its influence on the growth of the country</li> <li>New approach to education</li> </ul> <p><i>Session 2 The innovative ecosystem for business-science cooperation</i></p> <ul style="list-style-type: none"> <li>Innovation ecosystem in EU and Ukraine</li> <li>Involving business to support science and education</li> <li>Innovation strategy and its implementation</li> <li>Sharing of the best practice on the innovative field by international experts</li> </ul> <p>Presentation of technology parks and their activity in the field of start-ups growing.</p> <p><i>Session 3 Start-up competitions</i></p> <p>Presentations of the 8 start-ups (winners of first cycle selections), choice for the best Start-up to receive the Travel grant</p>
<b>19:00-19:30</b>	<b>Concert</b>
<b>19:30-20:00</b>	<b>Welcome networking cocktail</b>
<b>09:00-19:00</b>	<b>Poster Session</b>



Business Support on Your Doorstep

**Wednesday, 28.08.2019 (12 Stepan Bandera Street, Conference Hall of the main building)**

09:00-18:00	<b>Registration</b>
<b>Section “Nanocomposites and nanomaterials” (Dr. Andriy Chmyrov)</b>	
09:00-09:15	<b>PhD student Nataliya Pinchuk (Ukraine)</b> <i>"Using of high-voltage potential in pulsed form for obtaining nanostructural state of vacuum-arc TiN condensates"</i>
09:15-09:30	<b>Dr. Larysa Kaykan (Ukraine)</b> <i>"Crystal structure and morphology of Ni-substituted lithium ferrites"</i>
09:30-09:45	<b>Dr. Georgii Vasyliiev (Ukraine)</b> <i>"Green synthesis and characterization of silver nanoparticles using Grape pomace aqueous extract"</i>
09:45-10:00	<b>Dr. Andrew Stetsko (Ukraine)</b> <i>"Strengthened nanocomposite surface layers"</i>
10:00-10:15	<b>Dr. Viktor Ivashko (Ukraine)</b> <i>"Monte Carlo modeling of spin crossover nanomaterial within Ising-like model"</i>
10:15-10:30	<b>Prof. Oleksandr Sipatov (Ukraine)</b> <i>"Chalcogenide semiconductor nanostructures: growth, structure and properties"</i>
10:30-10:45	<b>Phd. Student Harun SEPET (Turkey)</b> <i>"Determination of tensile and impact properties of graphene nanoplatelet/epoxy nanocomposite"</i>
10:45-11:00	<b>PhD student Andrii Kondratyuk (Ukraine)</b> <i>"Mechanochemical preparation, structure, physico-chemical characteristics and promising applications of modified graphenes and 2D g-C<sub>3</sub>N<sub>4</sub>"</i>
<b>11:00-11:15</b>	<b>Coffee break</b>
11:15-11:30	<b>PhD student Illia Timashkov (Ukraine)</b> <i>"Effect of Ce ions on the crystallochemical properties of (La,Ce,Sr)MnO<sub>3</sub>"</i>
11:30-11:45	<b>Dr. Volodymyr Sohatsky (Ukraine)</b> <i>"Ferromagnetic-piezoelectric composites for spin electronics"</i>
11:45-12:00	<b>Prof. Serhii Nedilko (Ukraine)</b> <i>"Oxide nanostructured glass – ceramics luminescent composites for WLEDs"</i>
12:00-12:15	<b>Dr. Oksana Chukova (Ukraine)</b> <i>"Pulse laser deposited vanadate nanoparticles on glass and silicon substrates"</i>
<b>Section “Nanoplasmonics, nanoobjects microscopy and surface enhanced spectroscopy” (Dr. Olena Fesenko)</b>	
12:15-12:30	<b>PhD student Olha Skurikhina (Slovakia)</b> <i>"Changes in the chemical, structural and photonic properties of TiO<sub>2</sub> and ZnO nanoparticles upon co-milling with polypropylene"</i>
12:30-12:45	<b>Prof. Mehmet KAHRAMAN (Turkey)</b> <i>"SERS-based Biosensing on Plasmonic Silver Nanodomes"</i>
12:45-13:00	<b>PhD student Dorota Grzelak (Poland)</b> <i>"In situ SEM imaging of self-assembly process of colloidal gold nanorods aggregates"</i>
13:00-13:15	<b>Dr. Andriy Chmyrov (Germany)</b> <i>"Mechanobiological studies of ultrasound-mediated cell junction interruption using fluorescence super-resolution microscopy"</i>
<b>13:15-14:15</b>	<b>Break and Excursion to Lviv Polytechnic National University</b>
14:15-14:30	<b>PhD student Maciej Bagiński (Poland)</b> <i>"Thermally-driven self-assembly of liquid-crystalline metal nanoparticles into helical systems"</i>
14:30-14:45	<b>Junior research fellow Oleksandr Hreshchuk (Ukraine)</b> <i>"Tunable SERS substrates for wide optical range based on bimetallic nanoparticles"</i>
14:45-15:00	<b>Prof. Alexander Korovin (Ukraine)</b> <i>"Active hybrid plasmon-photon sensors based on surface-barrier semiconductor structures with photonic crystals terminated by continuous metallic films"</i>
15:00-15:15	<b>Dr. Leonid Dolgov (Estonia)</b> <i>"Ag@SiO<sub>2</sub> nanoparticles for plasmon enhancement of Mg<sub>2</sub>TiO<sub>4</sub>:Mn<sup>4+</sup> red luminescence"</i>
15:15-15:30	<b>Dr. Igor Goliney (Ukraine)</b> <i>"Excitation of surface electromagnetic waves on a multilayer system with a charged particle"</i>
<b>15:30-15:45</b>	<b>Coffee Break</b>
15:45-16:00	<b>PhD student Piotr Szustakiewicz (Poland)</b> <i>"Nanoplasmonics and surface enhanced spectroscopy: Long-range ordered binary systems of plasmonic nanoparticles with temperature-dependent structure and optical properties"</i>
16:00-16:15	<b>Dr. Olena Shynkarenko (Ukraine)</b> <i>"Efficient SERS substrates based on core-shell nanostructures"</i>
16:15-16:30	<b>PhD student Vitalii Polovyi (Ukraine)</b> <i>"The behaviour of the surface plasmon spectrum in heterogeneous structures depending on the thickness of the metal layer"</i>
16:30-16:45	<b>Dr. Tanel Tätte (Estonia)</b> <i>"Demonstration of less than 100 micron diameter microtubular SOFC based on tubular YSZ electrolytes"</i>
16:45-17:00	<b>Dr. Iuliia Mukha (Ukraine)</b> <i>"Magneto-plasmonic Fe<sub>3</sub>O<sub>4</sub>/Au nanocomposites"</i>
<b>09:00-18:00</b>	<b>Poster Session</b>



**Wednesday, 28.08.2019 (12 Stepan Bandera Street, Lecture Hall №226)**

09:00-18:00	<b>Registration</b>
<b>Section “Nanooptics and photonics” (NASU academician Leonid Yatsenko)</b>	
09:00-09:15	<b>PhD student Svitlana Ichenko (Ukraine)</b> <i>"Theoretical and experimental total internal reflection investigation of multilayered metal-dielectric structure"</i>
09:15-09:30	<b>Prof. Vyacheslav Kochelap (Ukraine)</b> <i>"Resonant effects in dynamic resistance of nanoscale ballistic diodes made of polar materials. Reststrahlen frequency range"</i>
09:30-09:45	<b>Prof. Yaroslav Shopa (Poland)</b> <i>"Dynamic light scattering and luminescence techniques in the characterization of single micrometer-sized droplets with spherical nanoparticles"</i>
09:45-10:00	<b>Prof. Eugene Glushko (Ukraine)</b> <i>"Resonant metallic quenching of electromagnetic field in photonic crystals: physics and applications"</i>
10:00-10:15	<b>Dr. Orest Sushynskiy (Ukraine)</b> <i>"Liquid crystal material with gold nanoparticles as an optical sensors active medium for the amino acids detection"</i>
<b>Section “Nanoscale physics” (NASU academician Leonid Yatsenko)</b>	
10:15-10:30	<b>Prof. Boris Borts (Ukraine)</b> <i>"Deformation and mass-transfer nano-mechanisms on the metals interface in the process of solid phase welding by high-temperature vacuum rolling"</i>
10:30-10:45	<b>Prof. Aleksander Parkhomenko (Ukraine)</b> <i>"Nano-level processes of welding the dissimilar materials in solid phase"</i>
10:45-11:00	<b>PhD student Dariusz Chomicki (Poland)</b> <i>"Influence of substituents on photo-physical properties of methacrylic polymers containing quinoline azo-dyes in side chain"</i>
11:00-11:15	<b>Dr. Iaroslav Gnilytskyi (Ukraine)</b> <i>"Highly-regular laser-induced periodic surface structures: molecular dynamic of formation and their applications"</i>
<b>11:15-11:30</b>	<b>Coffee break</b>
11:30-11:45	<b>PhD student Khrystyna Levchenko (Poland)</b> <i>"Complementary techniques for characterization of various (Ga,Mn)(Bi,As) DMS thin layers"</i>
11:45-12:00	<b>Dr. Andrii Korotun (Ukraine)</b> <i>"The dielectric function of a disordered bimetallic nanoparticle"</i>
12:00-12:15	<b>PhD student Malgorzata Nadolska (Poland)</b> <i>"Synthesis and physicochemical properties of nanodiamonds with phosphonic groups"</i>
12:15-12:30	<b>Dr. Ostap Zgalat-Lozynskyy (Ukraine)</b> <i>"Features of thermochemical processing and consolidation of nanocrystalline powders in microwaves (2,45 GHz)"</i>
12:30-12:45	<b>Dr. Mykhailo Derhachov (Ukraine)</b> <i>"Impedance spectroscopy of opal–KH<sub>2</sub>PO<sub>4</sub> nanocomposite"</i>
<b>12:45-13:45</b>	<b>Break and Excursion to Lviv Polytechnic National University</b>
<b>Section “Nanocomposites and nanomaterials”(Prof. Yaroslav Shopa)</b>	
13:45-14:00	<b>PhD student Anastasiya Kutuzova (Ukraine)</b> <i>"Acidic-basic properties of the commercial TiO<sub>2</sub> powders"</i>
14:00-14:15	<b>Dr. Svitlana Nahirniak (Ukraine)</b> <i>"Metaloxide nanostructures for ecological monitoring"</i>
14:15-14:30	<b>Prof. Volodymyr Tkachuk (Ukraine)</b> <i>"Quantum tunneling of non-point-like particle"</i>
14:30-14:45	<b>Dr. Fatih Doğan KOCA (Turkey)</b> <i>"Biosynthesis of Ag@GO nanocomposite using the colchicine and evaluation of its antimicrobial properties"</i>
14:45-15:00	<b>Dr. Oksana Nadtoka (Ukraine)</b> <i>"Hydrogel-Silver Nanoparticle Composites and Their Antibacterial Efficacy"</i>
15:00-15:15	<b>Dr. Alexander Kukhta (Bilorus)</b> <i>"Polymer-graphene ternary magnetic composites"</i>
15:15-15:30	<b>PhD student Burcu Tezcan (Turkey)</b> <i>"Preparation of SBA-15 Supported Pd Nanoparticles Using Supercritical Carbon Dioxide Deposition Method"</i>
<b>15:30-15:45</b>	<b>Coffee break</b>
15:45-16:00	<b>PhD student Alexandr Abakumov (Ukraine)</b> <i>"Effect of nitrogen doping on catalytic properties of multilayer reduced graphene oxide in acetylene hydrogenation"</i>
16:00-16:15	<b>Dr. Yuliia Bondar (Ukraine)</b> <i>"Synthesis of nanocomposite adsorbent based on potassium nickel ferrocyanide-loaded clinoptilolite-rich tuff for selective removal of Cs-137 from contaminated waters"</i>
16:15-16:30	<b>PhD Student Milena Prowizor (Poland)</b> <i>"Tribological properties of Ti-DLC coatings modified by perfluoro and alkylphosphonic acids"</i>
16:30-16:45	<b>PhD student Ewelina Polska-Adach (Poland)</b> <i>"Removal of toxic dyes from textile bath using nano-sized adsorbents"</i>
16:45-17:00	<b>PhD student Natalia Kolsut (Poland)</b> <i>"Self-assembly of anisotropic gold nanoparticles in block copolymer matrix"</i>
17:00-17:15	<b>PhD student Oleh Ohiienko (Ukraine)</b> <i>"Luminescent properties of Europium (III) acetate monohydrate in the pores of synthetic opal"</i>
<b>09:00-18:00</b>	<b>Poster Session</b>

Thursday, 29.08.2019 (12 Stepan Bandera Street, Conference Hall of the main building)	
09:00-18:00	Registration
Section "Nanoscale physics" (Dr. Leonid Dolgov)	
09:00-09:15	PhD student <b>Anastas Romansky</b> (Ukraine) <i>"Theoretical study of the structural changes in hydroxyapatite with the carbonate ions inclusions of A and B types"</i>
09:15-09:30	Dr. <b>Sergiy Bogatyrenko</b> (Ukraine) <i>"On the Au-Ni equilibrium phase diagram for 6 nm sized nanoparticles"</i>
09:30-09:45	Dr. <b>Olga Ilinskaya</b> (Ukraine) <i>"Coulomb effects in a thermally driven magnetic shuttle"</i>
09:45-10:00	PhD student <b>Oleksandr Artykulnyi</b> (Ukraine) <i>"Structure analysis of anionic surfactant – poly (ethylene glycol) micellar aggregates by neutron scattering"</i>
10:00-10:15	PhD student <b>Volodymyr Tereshchuk</b> (Ukraine) <i>"Dynamics of anisotropic break-up in nanowires of FCC lattice structure"</i>
10:15-10:30	Prof. <b>Bohdan Lukiyanets</b> (Ukraine) <i>"Size Effects of a Nanoobject in Magnetic Field"</i>
10:30-10:45	Dr. <b>Vitalii Asaula</b> (Ukraine) <i>"Debenzylation of N-benzyl substituted piperidine in mild conditions at presence Pd/C nanocomposite"</i>
10:45-11:00	Dr. <b>Szymon Starzonek</b> (Poland) <i>"Dielectric relaxation in nanoparticles doped liquid crystals under pressure"</i>
11:00-11:15	Coffee break
11:15-11:30	PhD student <b>Volodymyr Shmid</b> (Ukraine) <i>"Transient surface photovoltage in nano-ZnO films sputtered onto Si substates"</i>
11:30-11:45	PhD student <b>Malgorzata Sypniewska</b> (Poland) <i>"Influence of annealing temperature on optical properties of zinc oxide thin films deposited by spin coating method"</i>
11:45-12:00	Prof. <b>Viktor Tulupenko</b> (Ukraine) <i>"Delta – doped QWs and background impurities in barriers"</i>
12:00-12:15	Prof. <b>Yurij Lyashenko</b> (Ukraine) <i>"Simulation of grain refinement by KoBo deformation using a Cellular Automata model"</i>
12:15-12:30	Dr. <b>Elena Zhitlukhina</b> (Ukraine) <i>"Perfect absorbing in quantum nanoscale networks"</i>
12:30-13:30	Break and Excursion to Lviv Polytechnic National University
Section "Nanostructured surfaces" (Prof. Bohdan Lukiyanets)	
13:30-13:45	Research Assistant <b>Burak Kiremitler</b> (Turkey) <i>"Directed Assembly of Colloid Nanocrystals by Unique Uses of Electrospun Nanofibers and Their Electronic, Optoelectronic, Plasmonic Applications"</i>
13:45-14:00	Prof. <b>Alexander Bediukh</b> (Ukraine) <i>"Anomalously large absorption of electromagnetic radiation by nanometer gold film in the band 26÷37.5 GHz"</i>
14:00-14:15	Dr. habil. <b>Sergii Sologub</b> (Ukraine) <i>"Increasing of specularity of surface scattering of conduction electrons via adsorption-induced transformation of surface electronic structure"</i>
14:15-14:30	PhD student <b>Kacper Przykaza</b> (Poland) <i>"Effect of plasma activation and thin film deposition on the PEEK polymer surfaces"</i>
Section "Physico-Chemical nanomaterials science" (Prof. Bohdan Lukiyanets)	
14:30-14:45	Dr. <b>Sergey Kolotilov</b> (Ukraine) <i>"Composites of Co and Ni nanoparticles for hydrogenation of substituted quinolines"</i>
14:45-15:00	Dr. <b>Oleksandr Kryshchal</b> (Poland) <i>"In situ aberration-corrected STEM studies of metal-induced crystallization of amorphous semiconductor films"</i>
15:00-15:15	PhD student <b>Pavlo Torchyniuk</b> (Ukraine) <i>"Synthesis and degradation of organic-inorganic compounds"</i>
15:15-15:30	Dr. <b>Tetiana Afanasieva</b> (Ukraine) <i>"Graphene-like BeO nanoribbons on the Mo(112) surface"</i>
15:30-15:45	Junior researcher <b>Volodymyr Hryn</b> (Ukraine) <i>"Resonant properties of volume grating-waveguides made in nanocomposite by holographic lithography method"</i>
15:45-16:00	Coffee break
16:00-16:15	PhD student <b>Sylvia Parzyszek</b> (Polska) <i>"Anisotropy of optical properties of liquid crystalline self- assembled InP/ZnS nanocrystals"</i>
16:15-16:30	PhD student <b>Anna Herus</b> (Ukraine) <i>"The peculiarities of point-contact nanostructure behavior in ion-conducting media "</i>
16:30-16:45	PhD student <b>Mateusz Pawlak</b> (Poland) <i>"Helical assemblies of nanoparticles with reconfigurable structures"</i>
16:45-17:00	Dr. <b>Igor Shevchenko</b> (Ukraine) <i>"Influence of Solar Energy on Self-Organization of Water Molecules"</i>
09:00-18:00	Poster Session



**Thursday, 29.08.2019 (12 Stepan Bandera Street, Lecture Hall №226)**

09:00-18:00	<b>Registration</b>
<b>Section “Nanochemistry and nanobiotechnology, and Nanoobjects”( Assoc. Prof. Andrii Netreba)</b>	
09:00-09:15	<b>PhD student Agnieszka Jędrych (Poland)</b> "Pharma grade platinum group metals nanoparticles as carriers in targeted chemotherapy"
09:15-09:30	<b>PhD student Marta Goliszek (Polska)</b> "Synthesis and characterization of nanoporous microspheres with lignin"
09:30-09:45	<b>Dr. Fatih Ozcan (Turkey)</b> "Caco-2 cell studies of p-tert-butylcalix [4] arene nanofibers with different functional groups"
09:45-10:00	<b>PhD student Karolina Fila (Polska)</b> "Polymeric microspheres based on methacrylic thioester derivative of naphthalene and DVB - synthesis and properties"
10:00-10:15	<b>PhD student Dominika Fila (Poland)</b> "Recovery of metal ions from spent batteries using the ion exchange method"
10:15-10:30	<b>Dr. Mariusz Pietrzak (Poland)</b> "Advantages and limitations of application of noble metal-based nanozymes of oxidoreductase activity"
10:30-10:45	<b>Dr. Ruslan Mariychuk (Slovakia)</b> "Green synthesis and properties of gold nanoprisms prepared using extract of Solidago Canadensis"
10:45-11:00	<b>Prof. Erol Pehlivan (Turkey)</b> "Cr (VI)-contaminated water cleanup using biochar supported nanoscale zerovalent iron particles"
<b>11:00-11:15</b>	<b>Coffee break</b>
<b>Section “Nanobiotechnology for health-care” (Assoc. Prof. Andrii Netreba)</b>	
11:15-11:30	<b>PhD student Ekaterina Vagapova (Estonia)</b> "Laser spectroscopy of bi-phasic calcium phosphate powders doped by the $\text{Nd}^{3+}$ ions"
11:30-11:45	<b>Prof. Mariia Stupchuk (Ukraine)</b> "Effect of intravenous treatment of silver nanoparticles on oocytes and cells of their follicular environment under conditions of experimental glomerulonephritis"
11:45-12:00	<b>Prof. Seref Ertul (Turkey)</b> "Toxic Effect of Morpholine-Functioned Calix[4]arene Nanofibers on MCF-7 Breast Cancer Cells"
12:00-12:15	<b>Dr. Zdenka Lukacova Bujnakova (Slovakia)</b> "Interaction of arsenic sulfide nanoparticles with albumin"
12:15-12:30	<b>PhD student Peter Demydov (Ukraine)</b> "Doxorubicin-induced aggregation of gold nanoparticles in aqueous solutions: implications for prodrug research"
<b>12:30-13:30</b>	<b>Break and Excursion to Lviv Polytechnic National University</b>
13:30-13:45	<b>PhD student Taisiia Serdenko (Ukraine)</b> "The method to analyze the functioning of the catalytic biomacromolecules under nonequilibrium conditions"
13:45-14:00	<b>Assoc. Prof. Andrii Netreba (Ukraine)</b> "The multi-component relaxation combination of proton magnetization in biological tissues magnetic resonance investigations"
14:00-14:15	<b>Prof. Sergey Volkov (Ukraine)</b> "Blocking DNA activity on the nano-scale in ion beam therapy of cancer cells"
14:15-14:30	<b>Prof. Sergii Prokhorenko (Ukraine)</b> "Blood Serum SERS Based on Subtract Nanoparticles Carried into Slides Diagnosis"
14:30-14:45	<b>Prof. Mehmet Gökhan HALICI (Turkey)</b> "Preparation of Ag@GO nanocomposite using the Antarctic endemic lichenized fungus Umbilicaria antarctica extract and investigation of its antimicrobial properties"
<b>Section “Nanocomposites and nanomaterials” (Prof. Sergii Prokhorenko)</b>	
14:45-15:00	<b>Prof. Emre Erdem (Turkey)</b> "Spectroscopic Investigations of Point Defects in Functional Nano-materials"
15:00-15:15	<b>Prof. Sergiy Kurta (Ukraine)</b> "Nanostructural properties of extracts of the flavors and aromas substances natural coffee"
15:15-15:30	<b>Prof. Myroslav Sanytsky (Ukraine)</b> "Effects of nanocrystalline calcium silicate hydrates and nanosilica on the hardening of Portland composite cements"
15:30-15:45	<b>PhD student Monika Pietrzuk (United Kingdom)</b> "Transmission and reflection of vector vortex beams at the interface between a dielectric and a topological insulator"
<b>15:45-16:00</b>	<b>Coffee break</b>
16:00-16:15	<b>PhD student Denis Horokh (Ukraine)</b> "Structure and Mechanical Properties of Superhard Multilayer Coatings (TiAlCrY)N/Zr and (TiAlCrY)N/ZrN"
16:15-16:30	<b>PhD student Nikita Liedienov (Ukraine)</b> "Structure, morphology and functional properties of non-stoichiometric $\text{La}_{0.8-x}\text{Na}_{0.2}\text{Mn}_{1+x}\text{O}_3$ nanopowders"
16:30-16:45	<b>Dr. Olena Pavlenko (Ukraine)</b> "Electronic structure of fullerenes $\text{C}_{60}$ complexes with thiochrome"
16:45-17:00	<b>PhD student Oleksandr Matiasz (Ukraine)</b> "Morphological properties of the clonidine and sulfacetamide films on a patterned n-type silicon for optoelectronic applications"
17:00-17:15	<b>PhD student Viktor Borysiuk (Ukraine)</b> "Mechanisms of $\text{CrO}_4^{2-}$ anions and $\text{K}_2\text{CrO}_4$ quantum dots adsorption on the surface of carbon nanostructures"
<b>09:00-18:00</b>	<b>Poster Session</b>

Friday, 30.08.2019 (12 Stepan Bandera Street, Conference Hall of the main building)	
09:00-12:00	<b>Registration</b>
<b>Section “Nanostructured surfaces” (Dr. Liudmyla Gryshchuk)</b>	
09:00-09:15	<b>PhD student Ihor Borukh</b> (Ukraine) <i>"An approach for obtaining nanocomposite sintered magnets"</i>
09:15-09:30	<b>Dr. Andrii Goriachko</b> (Ukraine) <i>"Arrays of nanotips on Si(001) formed in high vacuum through thermally stimulated surface diffusion enhanced by electric field"</i>
09:30-09:45	<b>Dr. Maksym Barabashko</b> (Ukraine) <i>"Calorimetric studies of MWCNTs at low temperatures"</i>
09:45-10:00	<b>Assoc. Prof. Oleksandr Kravchenko</b> (Ukraine) <i>"Heating and coagulation of nanoparticles in a plasma jet"</i>
10:00-10:15	<b>Dr. Svitlana Bugaychuk</b> (Ukraine) <i>"Nonlinear optical response enhanced by a gold island film in hybrid liquid crystal cells"</i>
10:15-10:30	<b>Dr. Oleksandr Oberemok</b> (Ukraine) <i>"Formation of ZnO/Si isotype heterojunction at room temperature"</i>
<b>10:30-10:45</b>	<b>Coffee break</b>
<b>Section “Nanocomposites and nanomaterials”(Dr. Andrii Goriachko)</b>	
10:45-11:00	<b>Research fellow Andrii Semenov</b> (Ukraine) <i>"Hard-core–penetrable-shell model for effective electric parameters of random particulate systems"</i>
11:00-11:15	<b>Prof. Anatoly Veklich</b> (Ukraine) <i>"Regulation of biological processes with complexions of metals produced by underwater spark discharge"</i>
11:15-11:30	<b>Dr. Kira Kalinichenko</b> (Ukraine) <i>"Nanocomposites on the base of biosolid for plant development"</i>
11:30-11:45	<b>Dr. Liudmyla Gryshchuk</b> (Germany) <i>"Skin-care via multifunctional core-shell nanocapsules"</i>
11:45-12:00	<b>Assoc. Prof. Dr. Şerafettin Ekinci</b> (Turkey) <i>"Lowering Micro Scale Boric Acid Additives to Nano Scale for Tribological Purposes"</i>
12:00-12:15	<b>Dr. Yuriy Azhniuk</b> (Ukraine) <i>"Raman study of laser-induced formation of II–VI nanocrystals in Cd-doped As–S(Se) films"</i>
<b>12:15-13:15</b>	<b>Break</b>
13:15-13:30	<b>PhD student Magdalena Zięzio</b> (Poland) <i>"Preparation and characterization of activated carbons obtained from the waste materials impregnated with phosphoric acid (V)"</i>
13:30-13:45	<b>PhD student Olena Pariiska</b> (Ukraine) <i>"Oxygen reduction and hydrogen evolution on Co-N-C nanocomposite electrocatalysts, derived from poly-2,6-diaminopyridine"</i>
13:45-14:00	<b>PhD student Pavlo Golub</b> (Ukraine) <i>"Visualization of the topological defects in liquid crystal cells"</i>
14:00-14:15	<b>PhD student Maria Zhadko</b> (Ukraine) <i>"Structure and strength of vacuum Cu-Mo condensates"</i>
<b>14:15-15:00</b>	<b>Closing ceremony</b>
<b>09:00-15:00</b>	<b>Poster Session</b>
<b>15:00-18:00</b>	<b>Excursions around Lviv</b>



**Poster Session Tuesday, 27.08.2019  
(12 Stepan Bandera Street in front of Conference Hall)**

**Section "Nanoplasmonics and surface enhanced spectroscopy"**

1.	<b>PhD student Anastasiia Tomchuk</b> (Ukraine) "Enhancement of photoluminescence and extinction of light in Au nanoparticles/shellac-dye/Au film planar plasmonic cavity"
2.	<b>Student Pawel Jarmula</b> (Poland) "Modulating plasmon properties of silver nanoparticles in liquid crystal assemblies"
3.	<b>Prof. Volodymyr Fitio</b> (Ukraine) "Sensitivity of the waveguide resonance grating-based sensors elements"
4.	<b>Dr. Markiyan Kushlyk</b> (Ukraine) "Plasmon enhanced photoluminescence of down-converting YAG:Bi,Ce,Yb layers for photovoltaic applications"
5.	<b>Dr. Svitlana Bugaychuk</b> (Ukraine) "Exciton-plasmon optical nonlinearity in nanocomposites based on glassy ionic liquid crystals"
6.	<b>Prof. Yuriy Plevachuk</b> (Ukraine) "Synthesis and morphology of pure Co and CoSn <sub>3</sub> nanoparticles synthesized via a chemical reduction method"
7.	<b>Prof. Yuriy Plevachuk</b> (Ukraine) "Formation of nanocrystalline structure in high-entropy alloys"
8.	<b>PhD student Ewelina Tomczyk</b> (Poland) "Photo- and Thermoswitchability of plasmonic gold nanoparticles"

**Section "Physico-Chemical nanomaterials science" (2)**

9.	<b>Prof. Anatoliy V. Luzanov</b> (Ukraine) "Extended quasi-correlated orbitals and their application to organic single-molecule electronics"
10.	<b>PhD Yana Tyshchenko</b> (Ukraine) "Thermal barrier coatings based on powders of the system Al <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> -Nd <sub>2</sub> O <sub>3</sub> "
11.	<b>PhD student Oleksandr Yasko</b> (Ukraine) "Electrodeposition of Nanostructured Silicon Coatings onto Different Materials from Halide and Halide-Oxide Melts"
12.	<b>PhD student Arkadii Tretiakov</b> (Ukraine) "Synthesis of Molybdenum and Tungsten Silicides Nanopowders from Ionic Melts"
13.	<b>PhD student Oleg Sapsay</b> (Ukraine) "Heat Resistance of Nanocrystalline Powders, Single Crystals, and Coatings of CrSi <sub>2</sub> Obtained from Molten Salts"
14.	<b>PhD student Lilia Lugina</b> (Ukraine) "Bifunctional mesoporous organosilica for separation technologies and catalysis: synthesis strategies and architecture design"
15.	<b>PhD student Yuliya Andriichuk</b> (Ukraine) "Effect of synthesis temperature on the growth and optical properties of nanoparticles of cadmium selenide synthesized using the cadmium complex with 4-aminobenzenesulfamide"
16.	<b>Dr. Artem Artyukhov</b> (Ukraine) "Thermodynamic calculation of vortex granulator operation for producing of ammonium nitrate with nanoporous structure"
17.	<b>Dr. Nadiia Artyukhova</b> (Ukraine) "Final drying of ammonium nitrate with nanoporous structure in gravitational shelf dryers: hydrodynamic and thermodynamic conditions"
18.	<b>Prof. BELLEL Nadir</b> (ALGERIA) "Physicochemical Properties and Characterization of Biobased Materials"
19.	<b>Prof. Pavlo Galiy</b> (Ukraine) "Application of InSe (0001) surface as template for indium deposited 0D nanosystem formation"
20.	<b>Dr. Sergiy Korniy</b> (Ukraine) "Quantum-chemical calculation of interaction of green inhibitors with nanostructured metal surfaces"
21.	<b>Dr. Ruslan Ostroha</b> (Ukraine) "Effect of temperature on formation of nanoporous structure of granule shell in technology of obtaining organo-mineral fertilizers"
22.	<b>Prof. Liudmyla Trykoz</b> (Ukraine) "Interactions on the nanoparticle surface in the polymeric compositions"
23.	<b>Dr. Bogdan Vasylyv</b> (Ukraine) "Nanostructural changes in nickel-containing cermets during reoxidation: a review"
24.	<b>PhD student Michal Chodkowski</b> (Poland) "Surface properties of superhydrophobic layers deposited on the glass supports activated by cold plasma", "Surface properties of gelatin gels deposited on solid supports"
25.	<b>PhD student Andrii Ivaniia</b> (Ukraine) "The effect of the intensity of wetting granules of ammonium nitrate on the quantitative and qualitative composition of the final granules nanoporous structure"
26.	<b>PhD student Bohdan Mazilin</b> (Ukraine) "Structure and properties of AlN-SiC coatings obtained by magnetron sputtering"
27.	<b>Dr. Anastasiia Sachko</b> (Ukraine) "Dependence of rheological behavior of PEG solutions and PEG-BTC aqueous mixtures from molecular weight of PEG"
28.	<b>Dr. Olha Hrytsyna</b> (Ukraine, Slovakia) "Applications of local gradient elasticity to the description of the size dependence of shear modulus in nanofilms"
29.	<b>PhD student Bohdana Lopushanska</b> (Ukraine) "Synthesis from aqueous solutions and optical properties of Ag-In-S quantum dots"
30.	<b>Dr. Liudmyla Grishchenko</b> (Ukraine) "Bromination and amination of nanoporous activated carbon", "Synthesis and catalytic activity of activated carbons grafted with acidic groups"
31.	<b>Phd student Kateryna Hnatiuk</b> (Ukraine) "Investigation of the structure and mechanisms of thermal motion in nanostructured undecylenic acid"
32.	<b>Dr. Roman Lys</b> (Ukraine) "Mathematical model of mechanically stimulated changes of irradiated silicon crystals' surface conductivity"
33.	<b>Dr. Yuliya Vyshnevskaya</b> (Ukraine) "Structure and properties of nanoscaled multifunctional layers based on guanidine derivatives"
34.	<b>Dr. Dmytro Sugak</b> (Ukraine) "Investigations of Ca <sub>3</sub> TaGa <sub>3</sub> Si <sub>2</sub> O <sub>14</sub> crystals properties changes under high temperature reducing annealing", "Mechanosynthesis and properties investigations of LiNb <sub>x</sub> Ta <sub>1-x</sub> O <sub>3</sub> nanopowders"
35.	<b>Prof. Sergii Ubizskii</b> (Ukraine) "Investigation of the interface of Y <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> /Gd <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> (YIG/GGG) structure, obtained by the liquid phase epitaxy"
36.	<b>Dr. Andrii Nikolenko</b> (Ukraine) "Optical spectroscopy of Fe impurity centers in GaN grown from Ga-Fe-N solution at high pressure and high temperature"
37.	<b>Dr. Vitaliy Diyuk</b> (Ukraine) "Diels-Alder functionalization of multiwalled carbon nanotubes",

	<i>"Bromination of carbon surface as a toolkit for the preparation of N-, S-, and O- containing sorbents and catalyst carriers"</i>
38.	<b>Dr. Kozdraś Andrzej</b> (Poland) <i>"Thermodynamic studied on competitive nanostructurization-amorphization effects driven by high-energy mechanical milling in arsenic selenide glasses"</i>
39.	<b>Dr. Dmytro Slobodzyan</b> (Ukraine) <i>"Radiative and magnetically stimulated changes of the charge states of the Si-SiO<sub>2</sub> boundary in the diode structures with nanostructured dislocation complexes"</i>
40.	<b>Dr. Lyudmyla Kokhtych</b> (Ukraine) <i>"Thermal destruction of epoxy composites with silica nanoparticles of different modification at fillers"</i>
41.	<b>Dr. Valery Kovalchuk</b> (Ukraine) <i>"Physical-chemical properties of nanocellulose synthesized from Miscanthus x giganteus"</i>
42.	<b>Dr. Andrii Lesiuk</b> (Ukraine) <i>"Molecular docking study of interaction of anticancer drug with bovine serum albumin"</i>
43.	<b>PhD student Marta Kalbarczyk</b> (Poland) <i>"Removal of heavy metal pollution with low-cost adsorbent received from agricultural waste"</i>
44.	<b>Prof. Mykhailo Trubitsyn</b> (Ukraine) <i>"Photoinduced centers in the single crystals of PbO-MoO<sub>3</sub> system"</i>
45.	<b>Dr. Mykhailo Kurmach</b> (Ukraine) <i>"Hierarchical zeolites as perspective catalysts for acid-base and redox reactions"</i>
46.	<b>Prof. Sergiy Sveleba</b> (Ukraine) <i>"The influence of surface energy on incommensurate superstructure"</i>
47.	<b>Dr. Vladyslav Lisnyak</b> (Ukraine) <i>"Ultrasonication impact on the thermal stability of detonation nanodiamonds", "Carbon quantum dots for effective pH sensing with photoluminescence method", "Catalytic oxidation of hydrogen over nanoscale gold and platinum metals"</i>
48.	<b>Dr. Vitaliy Shvalagin</b> (Ukraine) <i>"The influence of thermal salt melt treatment of g-C<sub>3</sub>N<sub>4</sub> upon their photocatalytic activity in the reaction of selective oxidation of benzyl alcohol under visible light"</i>
49.	<b>Dr. Olga Shchokotova</b> (Ukraine) <i>"Modeling of deformation fields evolution and defect formation in binary Zr-Nb alloy subjected to irradiation and mechanical loading"</i>
50.	<b>Prof. Ewa Skwarek</b> (Poland) <i>"Hydroxyapatite and their clay nanocomposites as biocompatible systems for biomedical applications -poster"</i>
51.	<b>Mr. Yuriy Venhryn</b> (Ukraine) <i>"The peculiarities of doped ZnO nanopowders luminescence in gas"</i>
52.	<b>Dr. Yury Skirta</b> (Ukraine) <i>"Structural and temperature inhomogeneities of electrolyte under the influence of a magnetic field"</i>
53.	<b>PhD student Yuliia Taranets</b> (Ukraine) <i>"The group B vitamins (B1, B6, B12) as crystallization modifiers of calcium oxalate monohydrate"</i>
54.	<b>Dr. Tetiana Tatarchuk</b> (Ukraine) <i>"Green synthesis and characterization of Co-Cr nanoferrites"</i>
55.	<b>PhD student Oleksandr Artykulnyi</b> (Ukraine) <i>"Crystal and magnetic structure and magnetoresistive properties of Ba<sub>2</sub>FeMoO<sub>6</sub> in a wide temperature range"</i>
56.	<b>PhD student Mariia Lopachak</b> (Ukraine) <i>"Kinetic parameters of the primary crystallization Co-based metallic glasses"</i>
57.	<b>PhD student Vasyl Hreb</b> (Ukraine) <i>"Anomalous thermal behaviour of crystal structure EuCo<sub>0.5</sub>Cr<sub>0.5</sub>O<sub>3</sub> probed by X-ray synchrotron powder diffraction"</i>
58.	<b>Dr. Olga Boldyrieva</b> (Ukraine) <i>"Catalytic oxidation of hydrogen over nanoscale gold and platinum metals"</i>
59.	<b>Dr. Vadym Ptashnyk</b> (Ukraine) <i>"The Change of Structural Parameters of Nanoporous Activated Carbons under the Influence of Ultrasonic Radiation"</i>
<b>Section "Nanooptics and photonics" (3)</b>	
60.	<b>Prof. Ihor Izhnin</b> (Ukraine) <i>"Unipolar superlattice structures based on MBE HgCdTe for infrared detection"</i>
61.	<b>Prof. Valerii Barbash</b> (Ukraine) <i>"Optically transparent nanocellulose films from Miscanthus x giganteus"</i>
62.	<b>Dr. Oleksandr Havryliuk</b> (Ukraine) <i>"Plasmonic enhancement of light to improve the parameters of solar cells"</i>
63.	<b>Dr. Olexander Bonchuk</b> (Ukraine) <i>"Nanosize defect layers in arsenic-implanted and annealed HgCdTe epitaxial films studied with TEM"</i>
64.	<b>Dr. Kyril Nikolaiev</b> (Ukraine) <i>"Metal-Enhanced Fluorescence and FRET in Binary Dye Solution co-doped with Ag Nanoparticles"</i>
65.	<b>PhD student Svitlana Balika</b> (Ukraine) <i>"Optical parameters of concentrated suspensions of graded nano-sized particles"</i>
66.	<b>Dr. Lyudmyla Borkovska</b> (Ukraine) <i>"Optical properties of nanocomposites with CdSe quantum dots doped with Ag impurities", "The influence of thermal decomposition of matrix on the photoluminescence of Mn<sup>4+</sup> activated Mg<sub>2</sub>TiO<sub>4</sub> red phosphors"</i>
67.	<b>PhD student Viktoriia Klymchuk</b> (Ukraine) <i>"Impact of the peripheral nanostructures on the second and the third harmonics generation in ZnO harmonic nanoparticles"</i>
68.	<b>PhD student Volodymyr Multian</b> (Ukraine) <i>"Effect of the second and the third optical harmonics generation efficiencies enhancement in KDP single crystals due to incorporation of anatase nanoparticles", "Impact of Si nanowires array thickness on small angle elastic backscattering manifestation", "Impact of the peripheral nanostructures on the second and the third harmonics generation in ZnO harmonic nanoparticles".</i>
69.	<b>Dr. Andriy Chernyuk</b> (Ukraine) <i>"Spatial structures of electron-hole liquid in 2D semiconductor systems"</i>
70.	<b>Dr. Taras Dudok</b> (Ukraine) <i>"Statistical analysis of polarization-microscopic textures of imperfectly oriented planar cholesteric cells"</i>
71.	<b>Dr. Oleh Kravets</b> (Poland, Ukraine) <i>"Single-photon source at telecom wavelengths based on InGaAs/GaAs quantum dots: towards practical application"</i>
72.	<b>PhD student Volodymyr Tsiumra</b> (Poland) <i>"Localized exciton luminescence of the RVO<sub>4</sub>:Bi<sup>3+</sup> (R=Y, Gd, Lu)"</i>
73.	<b>PhD student Svitlana Ilchenko</b> (Ukraine) <i>"Optical properties of polyvinylidene fluoride nanolayers"</i>
74.	<b>PhD student Roman Kolodka</b> (Ukraine) <i>"Observation of Ramsey fringes in a single semiconductor quantum dot in energy domain"</i>
75.	<b>Prof. Viktor Gubanov</b> (Ukraine) <i>"Dispersion of Energy Spectra of Vibrational and Electronic Excitations in Diamonds and Other Nonpolar Cubic Crystals"</i>
76.	<b>Prof. Volodymyr Liakhovetskyi</b> (Ukraine) <i>"Third order optical susceptibilities of the copper oxide thin films"</i>
77.	<b>PhD student Oksana Kharchenko</b> (Ukraine) <i>"Polymers with styrylquinoline chromophore in side chain for nonlinear optics"</i>



78.	<b>Dr. Igor Gerasimchuk</b> (Ukraine) "Localized nonlinear waves in optical media with two interfaces"
79.	<b>Dr. Andrii Sizhuk</b> (Ukraine) "The quantum optical nano(micro)-scale effects in a gas medium confined between mirrors"
80.	<b>Prof. Georgy Tarasov</b> (Ukraine) "Effect of the doping concentration in active region on optical characteristics of quantum cascade laser"
81.	<b>Dr. Svitlana Bugaychuk</b> (Ukraine) "Ability-based design and applications of TiO <sub>2</sub> -, SiO <sub>2</sub> - mesostructured hybrid sol-gel films in nonlinear photonics"
82.	<b>Dr. Olesia Smirnova</b> (Ukraine) "Absorption spectra of tryptophan in aqueous medium as calculated by quantum chemical TDDFT method"
83.	<b>Prof. Anatoli Popov</b> (Latvia) "Photochromic centers of Gd <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> :Co single crystals"
84.	<b>PhD student Aleksandra Moskina</b> (Latvia) "Cathodoluminescence characterization of AlN nanotube/CsI scintillator and AlN nanotube/polymer composites"
85.	<b>Dr. Andrii Danylov</b> (Ukraine) "Parametric study of p-Cd <sub>1-x</sub> Mn <sub>x</sub> Te/n-CdTe graded bandgap solar cell"
86.	<b>Dr. Viktor Romanenko</b> (Ukraine) "Spatial distribution of atoms in the field of perpendicularly intersecting standing bichromatic light waves"
87.	<b>Junior research fellow Sergey Krasnovyd</b> (Ukraine) "The study of adsorption and desorption properties in nanostructured pyrolyzed material (coal) by EPR method"
88.	<b>PhD student Elena Vinogradova</b> (Estonia) "Rare earth ions optical centers in inorganic phosphors: from single to entangled states prospective for quantum computing"
<b>Section "Nanocomposites and nanomaterials" (4)</b>	
89.	<b>Prof. Irina Savchenko</b> (Ukraine) "Synthesis and luminescent properties of heterometallic polycomplexes"
90.	<b>Dr. Olena Sachuk</b> (Ukraine) "The synthesis of nanosized TiO <sub>2</sub> /SnO <sub>2</sub> composition by ultrasonic method"
91.	<b>Dr. Tatiana Tsaregradskaya</b> (Ukraine) "Features of phase-formation processes in amorphous alloys of Fe-Zr system"
92.	<b>Dr. Olena Lavrynenko</b> (Ukraine) "Pt-coated magnetite core-shell nanoparticles for controlled promoting of the lipid peroxidation"
93.	<b>PhD student Oleg Marinin</b> (Ukraine) "The kinetic model of nanoscaled metal formation on the surface of different forms of graphite "
94.	<b>Dr. Valeriy Bykov</b> (Ukraine) "Synthesis and catalytic properties of complex oxide compositions of cobalt-manganese and cerium-zirconium"
95.	<b>Dr. Dora Zakarian</b> (Ukraine) "The influence of the size factor on the formation of eutectic"
96.	<b>Prof. Ivan Kurdish</b> (Ukraine) "Complex nanocomposite bacterial preparation for crop production"
97.	<b>Dr. Lesya Demchenko</b> (Ukraine) "Shape memory nanocomposite based on Cu-Al-Mn(Fe,Co) alloy", "Influence of thermomechanical treatment on mechanical and magnetic behavior of Fe-Ni-Co-Ti alloy"
98.	<b>Dr. Liudmyla Filevska</b> (Ukraine) "The sensitivity to moisture peculiarities of nanoscale tin dioxide films obtained by means of polymers"
99.	<b>Prof. Ihor Izhnin</b> (Ukraine) "Epitaxial synthesis of 2D materials of group IV elements"
100.	<b>PhD student Nadia Sigareva</b> (Ukraine) "Thermodestruction of hybrid composites with microspheres coated with semiconductor and dielectric", "Epoxy molecular structure alteration in graphene –epoxy nanocomposites: loading effects"
101.	<b>Dr. Vitalii Chornii</b> (Ukraine) "Zirconium-containing oxides: Synthesis, optical properties and applications"
102.	<b>Prof. Volodymyr Vasylechko</b> (Ukraine) "Pre-concentration of Ag(NH <sub>3</sub> ) <sup>2+</sup> in water samples enhances anticancer action of the nanoparticles of silver-exchanged clinoptilolite"
103.	<b>Dr. Alla Truba</b> (Ukraine) "Structural, morphological, and catalytic properties of cryptomelane"
104.	<b>Dr. Oksana Balaban</b> (Ukraine) "High-energy nano-material MoS <sub>2</sub> for lithium current sources"
105.	<b>Dr. Sergey Popov</b> (Ukraine) "Thin Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> ferroelectric films on sitall substrates and deposition process particularities"
106.	<b>Dr. Leonid Kovalenko</b> (Ukraine) "Synthesis and investigation of components of composite solid electrolyte based on inorganic nano-particles of NASICON and LiClO <sub>4</sub> -doped polyethylene oxyurea"
107.	<b>Dr. Inna Kirian</b> (Ukraine) "The MAX-phase Ti <sub>3</sub> AlC <sub>2</sub> as a catalyst for improving of hydrogen storage properties of Mg"
108.	<b>PhD student Ewelina Polska-Adach</b> (Poland) "Application of the mixed oxide for the removal of C.I. Acid Yellow 219 from aqueous solutions"
109.	<b>Dr. Iryna Gavrylchenko</b> (Ukraine) "Structural and luminescent properties of porous GaAs"
110.	<b>PhD student Agnieszka Jędrych</b> (Poland) "Structure and catalytic activity of catalytic converters based on precious metal nanoparticles"
111.	<b>Prof. Liudmyla Vretik</b> (Ukraine) "PS/PNIPAM-co-AAm core/shell nanogels with size-controlled thermosensitivity ", "New nanocomposites of polystyrene (PS)-poly-N-isopropylacrylamide (PNIPAM) with polyaniline and pyrrole"
112.	<b>Dr. Lyudmila Ushakova</b> (Ukraine) "Fe-matrix composite with carbon nanotubes"
113.	<b>Dr. Ganna Dzhyga</b> (Ukraine) "Natural and acid-modified nanobentonites as supports in palladium(II)-copper(II) catalysts for carbon monoxide oxidation with air oxygen"
114.	<b>Prof. Sergey Ryabtsev</b> (Ukraine) "Metastable states in high carbon C- (Fe, Ni, Co) films obtained by three-electrode ion-plasma sputtering"
115.	<b>PhD student Magdalena Szaniawska</b> (Poland) "Adsorption and volumetric properties of surfactants and their binary mixtures used in pharmaceutical industry", "Interactions in alkaloid-nonionic surfactant systems"
116.	<b>Prof. Gennady Monastyrsky</b> (Ukraine) "Field assisted sintering of Ti-Ni-Hf powders prepared by spark-erosion method"
117.	<b>PhD student Mykhailo Luchynets</b> "Non-monotonous by the concentration of Cu <sub>6</sub> PS <sub>5</sub> Br nanoparticles conductivity of 6CB nematic liquid crystal"
118.	<b>Dr. Iryna Sulym</b> (Ukraine) "Superhydrophobic multi-walled carbon nanotubes/poly(dimethylsiloxane) nanocomposite materials: Fabrication and characterization"

**Wednesday, 28.08.2019**  
**(12 Stepan Bandera Street in front of Conference Hall)**

**Section “Nanoscale physics” (1)**

1.	<b>Dr. Liudmyla Shmeleva</b> (Ukraine) "Specificity of boundary conditions for laser-stimulated destructive surface treatment without melting", "Theoretical modeling of laser-stimulated nanostructures"
2.	<b>Dr. Ihor Semkiv</b> (Ukraine) "Influence of size effect on the optical characteristics of CdS thin films"
3.	<b>Dr. Igor Boyko</b> (Ukraine) "The theory of the interaction of electrons with acoustic phonons in AlN / GaN nanostructures at $T=0$ K"
4.	<b>PhD stud Olha Kovalenko</b> (Ukraine) "Transformation mechanisms of an excited molecule on the spiropyran-merocyanine path"
5.	<b>Prof. Anatoliy Korol</b> (Ukraine) "Transport of the relativistic quasielectrons through the potential barrier in the $\alpha$ -T3 model"
6.	<b>Dr. Dmytro Shyrokorad</b> (Ukraine) "Redistribution of atomic components in Ni-Al Janus-like nanoclusters under the interaction with argon clusters"
7.	<b>Dr. Viktor Vainberg</b> (Ukraine) "Ambipolar drift of charge carriers in the long base of the lateral planar diode in the AlGaAs/GaAs/AlGaAs quantum well "
8.	<b>Dr. Anatoliy Nedolya</b> (Ukraine) "The carbon pair atoms' configurations in the body-centered tetragonal nanocluster Fe-Ni-C"
9.	<b>PhD student Ann Garashchenko</b> (Ukraine) "Synthesis of nanostructured TiO <sub>2</sub> films modified by La and their electrocatalytic properties"
10.	<b>Prof. Zygmunt Gburski</b> (Poland) "Thin layer of $\beta$ -cyclodextrins on graphene - the molecular dynamics simulations"
11.	<b>Dr. Oleksandr Kramar</b> (Ukraine) "Modified two-pole approximation for systems with strong electron correlations: peculiarities of spectrum and DOS"
12.	<b>Dr. Igor Olenych</b> (Ukraine) "Simulation of field effect in porous silicon nanostructures"
13.	<b>Prof. Volodymyr Rusakov</b> (Ukraine) "Features of the motion of an Abrikosov's vortex in the vicinity of resonant frequencies"
14.	<b>Prof. Jacek Filipecki</b> (Poland) "The effect of inorganic precipitates formation on hydration and structural properties of calcified hydrogel-based intraocular lens material"
15.	<b>Dr. Oleksii Gonchar</b> (Ukraine) "Methods of creating of organoclay for obtaining polar polymer based exfoliated nanocomposites"
16.	<b>Prof. Mykola Tkach</b> (Ukraine) "Properties of renormalized spectrum of interacting with polarization phonons localized quasiparticle with degenerated excited state"
17.	<b>Dr. Bohdan Seredyuk</b> (Ukraine) "Low temperature electronic relaxation time of doped layered crystals CdJ <sub>2</sub> "
18.	<b>PhD student Nataliia Shcherban</b> (Ukraine) "The electronic structure of doped crystals Si ( $T=Fe, Co, Ni$ ) under strong correlation effect"
19.	<b>Dr. Orest Malyk</b> (Ukraine) "Local electron interaction with crystal defects in CdSe <sub>x</sub> Te <sub>1-x</sub> ( $x=0.2$ ) solid solution: <i>ab initio</i> approach"
20.	<b>Dr. Cornelia Tovstyuk</b> (Ukraine) "Electron energy in quantum dots with different configurations"
21.	<b>Prof. Natalia Tovstyuk</b> (Ukraine) "Low temperature thermodynamic advantage of bi-intercalate"
22.	<b>PhD student Oksana Soldatenko</b> (Ukraine) "The influence of the nanoparticles size on the coefficient of linear thermal expansion of Ag"
23.	<b>Dr. Viktor Nikolaenko</b> (Ukraine) "The conductivity phenomena in Q1D electron system over superfluid helium at crystallization"
24.	<b>Dr. Adrii Korostil</b> (Ukraine) "Magnetic field-controlled molecular and magnetic order parameters in ferronematic liquid crystals", "Electric field-controlled magnetization excitations in nanoheterostructures"
25.	<b>Dr. Oleh Kravets</b> (Poland, Ukraine) "Nanoscale multi-experimental investigation of Eu <sup>3+</sup> and Mn <sup>2+</sup> co-doped ZnGa <sub>2</sub> O <sub>4</sub> and MgGa <sub>2</sub> O <sub>4</sub> phosphors"
26.	<b>Olga Sulymenko</b> (Ukraine) "Antiferromagnetic spin-Hall oscillators for signal processing"
27.	<b>PhD student Yurii Klysko</b> (Ukraine) "Hybrid functional study of electronic properties of transition-metal phthalocyanines"
28.	<b>PhD student Petro Artemchuk</b> (Ukraine) "Detection of Monochromatic and Pulsed Input Signals in Spin-Torque Diode"
29.	<b>Prof. Evgen Len</b> (Ukraine) "Nanosize regions of homogeneous magnetic ordering in binary alloys with strong electron correlations"
30.	<b>Prof. Ocsana Fomina</b> (Ukraine) "Influence of initial QW depth on the phenomena connected with delta-doping of the QW"
31.	<b>Prof. Georgiy Levchenko</b> (Ukraine) "Electrical voltage control of the pressure induced spin transition at room temperature"
32.	<b>Prof. Mykhailo Bondar</b> (Ukraine) "Excitonic energy transfer in close-packed ZnSe quantum dots films stabilized by 1-thioglycerol"
33.	<b>Dr. Tetiana Barlas</b> (Ukraine) "Optical properties of porous GaP nanocomposites".
34.	<b>Dr. Dmitry Zyatkevich</b> (Ukraine) "Nanocomposite Material of the Si <sub>3</sub> N <sub>4</sub> -ZrN System for the Manufacture of Bearings with the Self-Healing Effect"
35.	<b>Dr. Andriy Kashuba</b> (Ukraine) "Optical-energy properties of CdSe thin film"
36.	<b>Ivan Kuno</b> (Ukraine) "Diffraction of light beam on the nanoperiodical waves of spatial deformation incommensurate superstructure"

**Section “Nanoobjects microscopy” (2)**

37.	<b>PhD student Ihor Starchenko</b> (Ukraine) "Helium complexes behaviour near the free surface in tungsten"
38.	<b>PhD student Ihor Lemishka</b> (Ukraine) "Features of granulometric distribution of non-spherical powders of titanium alloys at within investigated fractions"
39.	<b>Dr. Petro Lytvyn</b> (Ukraine) "Peculiarities of electrochemical reactions in an aqueous nano-cell formed in the contact of AFM probe with graphene/graphene oxide"
40.	<b>Dr. Tetiana Monastyrskya</b> (Ukraine) "Effect of microalloying by transition and post-transition metals on the aging of precipitation-hardened Al-Cu alloys"
41.	<b>Dr. Volodymyr Sukhomlyn</b> (Ukraine) "Nano-sized particles of cementite in low carbon steel"
42.	<b>Dr. Viktor Nikolaenko</b> (Ukraine) "The dipole system in helium film for IR detecting"
43.	<b>Prof. Volodymyr Fitio</b> (Ukraine) "Filtration of the digital focused image hologram in spatial domain with Chebyshev polynomials"
44.	<b>Dr. Vadim Koronovskyy</b> (Ukraine) "Influence of an external electric field on micromagnetic structural elements in thin ferrite"



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Section "Nanocomposites and nanomaterials" (3)	
45.	<b>Phd student Andrii Yaremkevych</b> (Ukraine) "Size effect on pyroelectric and electrocaloric properties of ferroelectric nanoparticles"
46.	<b>Dr. Liudmyla Gryshchuk</b> (Germany) "Nanoreinforced bio-based polyurethane foams with improved mechanical performance"
47.	<b>Prof. Alexander Pud</b> (Ukraine) "Influence of carbon nanotubes on properties of poly(3-methylthiophene) in their nanocomposites", "New nanocomposites of polystyrene with poly(3,4-ethylenedioxythiophene)"
48.	<b>Prof. HAMAMDA ISMAIL</b> (Algérie) "Thermal expansion of nanocomposite Al + 0.25% NTCM"
49.	<b>Dr. Anatoliy Petrovich Onanko</b> (Ukraine) "Adsorption, mechanical properties of multiwalled carbon nanotubes and polyethylene, polyvinyl chloride, porous polystyrene"
50.	<b>PhD student Denys Zalevskyi</b> (Ukraine) "Properties of materials for Resistive RAM based on HfO <sub>2</sub> (First principles calculations)"
51.	<b>PhD student Mark Shamis</b> (Ukraine) "Formation of ordered L1 <sub>0</sub> -FePt phase in FePt-Ag thin films"
52.	<b>Dr. Oksana Dobrovetska</b> (Ukraine) "Products of NiAl <sub>3</sub> alloy etching in alkali solution", "Nickel nanomaterials electrodeposited on graphite surface"
53.	<b>PhD student Maryna Shapovalova</b> (Ukraine) "Structural, optical and photocatalytic properties of La/TiO <sub>2</sub> nanocomposites"
54.	<b>PhD student Yelyzaveta Kucherenko</b> (Ukraine) "Polymeric nanofilled composites with adjustable microfibrillary structure"
55.	<b>Dr. Irine Shipkova</b> (Ukraine) "Magnetostatic fields in multilayer composite films with bimodal granule size distribution"
56.	<b>Dr. Yuriy Skorenkyy</b> (Ukraine) "Configurational model of quasi-2D organic conductor electron subsystem"
57.	<b>PhD student Oleksii Kozak</b> (Ukraine) "Photovoltage transients of si-doped inas/gaas solar cells with alas cap layers"
58.	<b>Dr. Tatiana Tkachenko</b> (Ukraine) "Bio-SiO <sub>2</sub> from agriculture residue"
59.	<b>PhD student Dmytro Vorontsov</b> (Ukraine) "Thermosensitivity of the photoluminescent composites on the base of quantum dots"
60.	<b>Dr. Alla Dyachenko</b> (Ukraine) "Co-Fe nanocomposites deposited onto platinized alumina in the reaction of CO <sub>2</sub> hydrogenation"
61.	<b>Dr. Victor Dan'ko</b> (Ukraine) "Photoluminescence of silicon nanoparticles in multilayer (SiO <sub>x</sub> -SiO <sub>y</sub> ) <sub>n</sub> structures with porous insulating layers"
62.	<b>PhD student Halyna Rokytska</b> (Ukraine) "Relaxation properties of penton filled by silver iodide and multi-walled carbon nanotubes"
63.	<b>Prof. Galina Yaremchuk</b> (Ukraine) "Synthesis, optical and nonlinear optical properties of semiconductor hetero-nanoparticles in ionic liquid crystalline systems"
64.	<b>Dr. Larisa Lutsenko</b> (Ukraine) "Development of nanosized oxide composites for catalytic CO oxidation"
65.	<b>As. prof. Liliya Frolova</b> (Ukraine) "Magnetic properties of Ni-doped CoFe <sub>2</sub> O <sub>4</sub> nanoparticles obtained by the plasma method"
66.	<b>PhD student Oleksii Maruzhenko</b> (Ukraine) "Influence of filler morphology on electrical and thermal properties of the composites based on the polyethylene filled with thermally expanded graphite"
67.	<b>Prof. Orest Kuntiyi</b> (Ukraine) "Synthesis of silver nanoparticles by contact glow discharge electrolysis in sodium polyacrylate (NaPa) solutions"
68.	<b>Dr. Roman Shvets</b> (Ukraine) "Electric Properties of MCM-41 Nanohybrid Encapsulate"
69.	<b>PhD student Alina Grinko</b> (Ukraine) "Influence of the calcination temperature on nanoceria properties"
70.	<b>PhD student Vasyl Mykhailovych</b> (Ukraine) "Synthesis of uniform ZnCr <sub>2</sub> O <sub>4</sub> spherical nanoparticles"
71.	<b>Dr. Oleksandr Tolochyn</b> (Ukraine) "Solid-phase consolidation of ultrafine grain WC-25%Co alloy with at impact sintering"
72.	<b>Dr. George Fedorenko</b> (Ukraine) "Pt-containing nanosized materials based on tin dioxide to create semiconductor hydrogen sensors", "Nanosized Ce-doped SnO <sub>2</sub> nanocomposites as perspective material for adsorption semiconductor sensors"
73.	<b>Dr. Praskoviya Boltovets</b> (Ukraine) "Acidic Polysaccharides as Single Reducing and Capping Agent for Introducing pH depended Anisotropic Growth of Gold Nanoparticles"
74.	<b>PhD Student Iryna Medyk</b> (Ukraine) "Electrocatalytic and photoelectrochemical properties of Y-TiO <sub>2</sub> nanostructured films"
75.	<b>Dr Volodymyr Sydorchuk</b> (Ukraine) "Nano-sized oxides supported onto silica oxides as visible light-driven photocatalysts"
76.	<b>PhD student Ivan Lisovskyi</b> (Ukraine) "Synthesis of Li-conductive nanoparticles with NASICON-type structure"
77.	<b>PhD student Mariia Samsonenko</b> (Ukraine) "Influence of doping with silver on photocatalytic properties of tin dioxide"
78.	<b>PhD student Vladyslav Vovk</b> (Ukraine) "Photodielectric properties of nematic liquid crystal mixture with impurity fullerene C <sub>60</sub> and supramolecular complex Li-TCNQ"
79.	<b>Dr. Svitlana Khalameida</b> (Ukraine) "Photocatalytic properties of nano-sized mixed bismuth-praseodymium vanadates"
80.	<b>Prof. Volodymyr Dutka</b> (Ukraine) "Preparation of polymer-mineral nanocomposites based on vinyl monomers and dispersed inorganic oxides"
81.	<b>PhD student Nadia Diyuk</b> (Ukraine) "Characterization of nanosize ZnMoO <sub>4</sub> synthesized by mechanochemical and ultrasonic methods"
82.	<b>Prof. Iurii Gudyma</b> (Ukraine) "The bistability in spin-crossover nanocrystals with (anti)ferromagnetic surface"
83.	<b>Prof. Anatoly Druzhinin</b> (Ukraine) "Magnetotransport properties of Bi <sub>2</sub> Se <sub>3</sub> whiskers: superconductivity and weak localization"
84.	<b>Prof. Bilgehan Guzel</b> (Turkey) "The Effect of Pressure on Palladium Hydride Nanoparticles formation by Supercritical Carbondioxide Deposition Method"
85.	<b>PhD student Oleh Khamar</b> (Ukraine) "Features of the technology for obtaining magnetically sensitive catalysts of the core-shell type"
86.	<b>Dr. Svetlana Kamchatnaya</b> (Ukraine) "Effects of Hf impurity on the excess conductivity of YBaCuO ceramic samples at temperatures near and above the critical"
87.	<b>PhD student Anzhela Kukh</b> (Ukraine) "Study of adsorption kinetics of methylene blue onto the surface of composites TiO <sub>2</sub> /activated carbon"
88.	<b>Prof. Ihor Zavaliy</b> (Ukraine) "Electrochemical hydrogenation of Ni nanopowders"
89.	<b>Dr. Tatiana Hryhorova</b> (Ukraine) "Stress relaxation in ultrafine-grained copper at low temperatures"
90.	<b>Dr. Eugene Strativnov</b> (Ukraine) "Investigation of thermodynamic features of ultrapure graphite obtaining by the method of high-temperature concentrating"
91.	<b>PhD student Dmytro Hushchyk</b> (Ukraine) "Nanostructured AlNiCoFeCrTi high-entropy coating performed by Cold Spray"

92.	<b>PhD student Viktor Dzikovskyi (Ukraine)</b> "A DFT study for adsorption of CO and H <sub>2</sub> on Pt-doped ZnO nanocluster"
93.	<b>Dr. Olena Goncharuk (Ukraine)</b> "Structure and catalytic properties of Ni-Co/Silica nanocomposites"
94.	<b>PhD student Inna Ivanova (Ukraine)</b> "Composites containing graphene nanoparticles for removal of U(VI) compounds from water"

**Thursday, 29.08.2019**

**(12 Stepan Bandera Street in front of Conference Hall)**

**Section "Nanostructured surfaces" (1)**

1.	<b>PhD student Jana Hovancová (Slovakia)</b> "Nanostructured gold microelectrodes for nonenzymatic glucose sensing"
2.	<b>Dr. Ivan Gab (Ukraine)</b> "Influence of vacuum annealing on the dispersion of thin double chrome-silver films deposited onto oxide ceramic materials"
3.	<b>Dr. Svitlana Romaniuk (Ukraine)</b> "Arc-PVD ZrN and ZrCN coatings obtained with modified curvilinear magnetic filter and plasma source", "Structural and mechanical properties of B <sub>4</sub> C coatings obtained by RF-sputtering with external magnetic field"
4.	<b>Dr. Andrii Koval (Republic of Moldova)</b> "Investigation of InP photovoltaic cells with nanolayers"
5.	<b>Dr. Galyna Zozulia (Ukraine)</b> "Galvanic replacement – method of produced catalytically active nanostructured electrodes M/Cu for CO <sub>2</sub> conversion"
6.	<b>PhD student Miroslav Zakharov (Ukraine)</b> "Frictional anisotropy of Al, Pt and Pd nanoparticles on a graphene substrate"
7.	<b>Dr. Kateryna Voitko (Ukraine)</b> "Theoretical and experimental study of peroxides decomposition by native and modified carbon matrices"
8.	<b>PhD student Denis Boyko (Ukraine)</b> "Atomistic modeling of tribological properties of ultrathin layer of carbon disulfide between diamond surfaces"
9.	<b>Prof. Agnieszka Nosal-Wiercińska (Poland)</b> "The effects of mixed thiopurine derivatives – nonionic surfactants adsorption layers on double layer parameters of the mercury/chlorates(VII) interface; dependence on the supporting electrolyte"
10.	<b>PhD student Mariana Shepida (Ukraine)</b> "Electrochemical deposition of nanoparticles of noble metals on the silicon surface in DMSO and DMF"
11.	<b>PhD student Marharyta Bortnitskaya (Ukraine)</b> "Effect of substrate bias on structure and mechanical properties of vacuum arc deposited VN coatings"
12.	<b>Dr. Alex Kuprin (Ukraine)</b> "Influence of the nitrogen pressure on the structure and mechanical properties of vacuum arc VN <sub>x</sub> coatings"
13.	<b>PhD student Anastasiia Voronova (Ukraine)</b> "Surface Chemistry of Nanoscaled Spinels"
14.	<b>Dr. Oleksandr Morozov (Ukraine)</b> "Thermal helium desorption of implanted in austenitic stainless steel 18Cr10NiTi. Effects dose and temperature implantation"
15.	<b>Dr. Alina Dvornichenko (Ukraine)</b> "A role of fluctuations of the adsorbate flux in nanostructured thin films growth during deposition"
16.	<b>PhD student Tetiana Mazur (Ukraine)</b> "Optical properties of cadmium chalcogenide substrates with surface nanostructure"
17.	<b>PhD student Liliia Naiko (Ukraine)</b> "Nanotubing of TiO <sub>2</sub> layers by anodization"
18.	<b>PhD Olha Maksymiv (Ukraine)</b> "The analysis of properties of surface nanocrystalline structures by the method of nanoindentation"
19.	<b>Prof. Oleksiy Nazarov (Ukraine)</b> "Surface modification of thin nanoporous graphitic films by RF plasma treatment"
20.	<b>Dr. Galyna Malanych (Ukraine)</b> "Advantages of developed treatment method of PbTe and Pb <sub>1-x</sub> Sn <sub>x</sub> Te crystals surface after chemical etching"
21.	<b>Dr. Iryna Yermolenko (Ukraine)</b> "The phase composition of the galvanic Fe-Co-Mo alloys "
22.	<b>Dr. Stepan Nichkalo (Ukraine)</b> "Effect of the conductivity type of Si wafers on morphology of Si nanorods obtained via metal-assisted chemical etching"
23.	<b>PhD student Kacper Przykaza (Poland)</b> "Wetting properties of plasma activated and chitosan coated PEEK surfaces"
24.	<b>PhD student Uliana Yakhnevych (Ukraine)</b> "The nanoindentation of Cu diffusion layers in LiNbO <sub>3</sub> crystal", "The processes of diffusion and drift of copper ions in LiNbO <sub>3</sub> crystal"
25.	<b>Dr. Kateryna Sorochkina (Ukraine)</b> "Ag <sub>0</sub> -doped metal oxyhydroxides adsorbents for drinking water treatment"
26.	<b>Dr. Oleg Bratus (Ukraine)</b> "Electric properties of layered SiO <sub>x</sub> -Al-SiO <sub>x</sub> structure obtained by ion-plasma sputtering"
27.	<b>Dr. Sergiy Fabirovskyy (Ukraine)</b> "Algorithms and software tools for analysis of MEMS sensors noise parameters and noise immunity data transmission systems development"
28.	<b>Dr. Yaroslav Kyryliv (Ukraine)</b> "Formation by vibratory-centrifugal hardening of a surface ultrafine grain structure with residual compressive stresses"
29.	<b>PhD student Mariia Aleksandrovych (Ukraine)</b> "Three wetting modes of nanostructured surfaces by liquid in coarse-grain approach"
30.	<b>PhD student Ann Karakurkchi (Ukraine)</b> "Morphology and phase composition of nanostructured PEO-coatings on valve metals"
31.	<b>Dr. Nataliya Berezovska (Ukraine)</b> "Femtosecond laser surface micro- and nano-texturing of metals, alloys and ceramics perspective for biomedical applications"
32.	<b>Dr. Vadym Naumov (Ukraine)</b> "Photoactivity of nanostructured TiO <sub>2</sub> /PTZ composites. Spectroscopic and electrophysical characterization"
33.	<b>Dr. Dmytro Derecha (Ukraine)</b> "Operational Reliability Improving by Means of Substructural Strengthening "
34.	<b>Dr. Ievgenij Dzevin (Ukraine)</b> "The connection of the features of Fe-Al-C alloy structure with the regularities of the diamond phase formation"
35.	<b>Dr. Ihor Shtablayvi (Ukraine)</b> "Phase formation and structure of the Cu thin film interlayer on Si(111) substrate: a molecular dynamics simulation study"
36.	<b>PhD student Khrystyna Khrushcheyk (Ukraine)</b> "Kinetic parameters of nanostructures of the Al-based amorphous alloys"
37.	<b>Prof. Małgorzata Wiśniewska (Poland)</b> "Nanostructure of polyacrylamide adsorption layer on the clay mineral surface in the heavy metal ions presence", "Lead(II) ions removal by the use of nanostructured biocarbons modified with poly(acrylic acid)"
38.	<b>PhD student Rostyslav Yavorskyi (Ukraine)</b> "Measurement of ZnO nanowire based CdTe thin film solar cells"
39.	<b>Phd Student Mykola Kravchenko (Ukraine)</b> "Obtaining zirconium-silicate aerogels by alco-thermal treatment of hydrogels"

**Section "Nanochemistry and nanobiotechnology, and Nanoobjects" (2)**



40.	<b>Dr. Nataliya Vlasova</b> (Ukraine) "Modeling of the nanoparticle interactions with biomolecules"
41.	<b>Dr. Liudmyla Shmeleva</b> (Ukraine) "About the influence on the possibility of metabolic electron transfer of structural features of DNA"
42.	<b>Prof. Kyungpyo Park</b> (Republic of Korea) "Surface-immobilized hyaluronic acid–catechol used for tissue engineering "
43.	<b>PhD Mariya Borovaya</b> (Ukraine) "«Green» synthesis and bioimaging applications of Ag <sub>2</sub> S nanoparticles "
44.	<b>Prof. Tetyana Sergeyeva</b> (Ukraine) "Smartphone sensor systems for aflatoxin B1 and zearalenone detection based on nanostructured polymeric membranes"
45.	<b>PhD student Olena Paiuk</b> (Ukraine) "Perspective routes of controlled synthesis of polyoxazoline based polymeric surfactants"
46.	<b>Dr. Igor Dubey</b> (Ukraine) "Theoretical study of the interaction of styrylcyanine telomerase inhibitors with various quadruplex DNA structures "
47.	<b>Dr. Jana Ficeriová</b> (Slovakia) "Obtaining of gold nanoparticles by using mechanochemico-biological activation"
48.	<b>PhD student Nataliia Sova</b> (Ukraine) "Biochar application for marginal lands reclamation and primary/secondary agricultural residues processing "
49.	<b>Prof. Olga Sverdlikovska</b> (Ukraine) "Polymeric ionic liquids and ionic liquids of ionen type"
50.	<b>Dr. Andrii Chobotarov</b> (Ukraine) "Green Synthesis of Silver Nanoparticles Using <i>Penicillium citrinum</i> , and Their Antibiotic Activity"
51.	<b>Dr. Andrii Venger</b> (Ukraine) "Three-dimensional structure and folding-analogs of Ca <sup>2+</sup> cation antiporter of <i>Natrialba aegyptia</i> "
52.	<b>Dr. Olga Venger</b> (Ukraine) "Domains of molybdopterin-dependent oxidoreductase of <i>Natrialba aegyptia</i> "
53.	<b>PhD Iryna Skorochod</b> (Ukraine) "Changes in the quantitative composition of phenol carboxylic acids in the culture medium of the strain <i>Bacillus subtilis</i> IMV B-7023 at its cultivation with bentonite nanoparticles"
54.	<b>Prof. Aydan Yilmaz</b> (Turkey) "Synthesis of new functional calixarene derivatives and their interaction with eukaryotic DNA"
55.	<b>Dr. Olga Saiapina</b> (Ukraine) "Development of a highly sensitive arginine biosensor based on ammonium-selective sublayer within the sensor recognition element"
56.	<b>PhD student Anton Martynets-Harsiia</b> (Ukraine) "Synthesis and Study of Methacrylic Monomers and Polymers on the Basis of Aurones "
57.	<b>Dr. Romana Petrina</b> (Ukraine) "Cholesteric liquid crystal and amino acid as sensitive element for optical sensor"
58.	<b>PhD student Alexandr Otsalyuk</b> (Ukraine) "Synthesis of new methacrylic monomers on the basis of pyrazole derivatives for thermal stabilization of polystyrene"
59.	<b>Dr. Semen Khomyak</b> (Ukraine) "Optical sensor of amino acids based on liquid crystal"
60.	<b>Dr. Liliya Batyuk</b> (Ukraine) "Mathematical modelling of dielectric behavior of nanodiamonds properties and effect on red blood cells"
61.	<b>Dr. Yaroslav Pirko</b> (Ukraine) "«Green» synthesis of silver nanoparticles using <i>Pleurotus eryngii</i> (DC.) Quel."
62.	<b>PhD student Mariia Liaskovska</b> (Ukraine) "Adsorption properties of green synthesized cobalt-zinc ferrites"
63.	<b>Dr. Olga Biloivan</b> (Ukraine) "Electrochemical determination of L-lactate based on nanostructured printed electrodes"
64.	<b>PhD student Alisa Puhach</b> (Ukraine) "Thiacalix[4]arene C-800 as Selective and Sensitive Fluorescent Sensor for Zinc Ions"
65.	<b>PhD student Marta Goliszek</b> (Polska) "Swelling studies of polymer microspheres based on kraft lignin"
66.	<b>PhD student Karolina Fila</b> (Polska) "Synthesis and evaluation of sorption properties of microspheres based on methacrylic derivatives of chlorinated phenols"
67.	<b>PhD student Dominika Fila</b> (Poland) "Application of ion exchangers with functional groups in the adsorption process of metal ions"
68.	<b>Prof. Nadiia Matvieieva</b> (Ukraine) "Green" synthesis of silver nanoparticles using the extracts of "hairy" root cultures of medicinal plants"
69.	<b>Dr. Oleksandra Berezhnytska</b> (Ukraine) "Synthesis and biological activities of new n-acid derivative antraanic acid"
70.	<b>PhD student Svitlana Hrechyshkina</b> (Ukraine) "Changes in the content of photosynthetic pigments in pleuston under the influence of metal nanoparticles"
71.	<b>Dr. Orest Sushynskyi</b> (Ukraine) "Optical sensor of amino acids based on liquid crystal"
<b>Section "Nanobiotechnology for health-care" (3)</b>	
72.	<b>Dr. Nataliya Khmil</b> (Ukraine) "The investigation of dielectric constant of blood during sensitization to penicillin G"
73.	<b>Prof. Anatoliy Shevchenko</b> (Ukraine) "Nanobiotechnology for health-care Antitumor nanocomplex with magnetic memory"
74.	<b>PhD student Valentyna Sribna</b> (Ukraine) "The influence of star-like dextran-polyacrylamide polymers on the lymph nodes cells"
75.	<b>PhD student Mariia Kumeda</b> (Ukraine) "Hydroxyapatite/Chitosan/Fullerene C <sub>60</sub> composites as system for prolonged drug release"
76.	<b>Prof. Anatoliy Goltsev</b> (Ukraine) "Mechanisms of anti-tumor effect of nanocomposites based on orthovanadates of rare earth metals "
77.	<b>Dr. Erika Dutková</b> (Slovakia) "Chitosan capped CuInS <sub>2</sub> and CuInS <sub>2</sub> /ZnS by wet stirred media milling: in vitro verification of their potential bio-imaging applications"
78.	<b>Dr. Urszula Bazylińska</b> (Poland) "Application of natural oils in assembly of topical formulations for health-care products"
79.	<b>Prof. Tatyana Zheltonozhskaya</b> (Ukraine) "Effective thermo- and light-resistant nanobiocides for treating wounds, dressings, clothes and fish aquariums/ponds"
80.	<b>PhD student Mariia Lupatsii</b> (Ukraine) "The effect of nanocomposite, impregnated with ornidazole, on biofilm formation by opportunistic microorganisms"
81.	<b>Dr. Tymofii Nikolaienko</b> (Ukraine) "From solvent to nano-carrier and backwards: the binding of gemcitabine drug molecule to sodium oleate bilayer"

82.	<b>PhD student Alina Gaidai</b> (Ukraine) "Investigation of proteonectic properties of biologically active nanocomposites based on silica matrices"
83.	<b>Dr. Natalia Rusinchuk</b> (Ukraine) "Using of cells population dynamics for evaluation of viruses concentration and understanding the mechanism of nanoparticles action"
84.	<b>Dr. Irena Maliszewska</b> (Poland) "Synergistic effect of tetrasulfonated hydroxyaluminum phthalocyanine and bimetallic Ag/Au nanoparticles against <i>Candida albicans</i> "
85.	<b>Dr. Eugenia Korenieva</b> (Ukraine) "Prostate protective and sperm modulating effects of the combined nanoparticles based on rare-earth metals oxides".
86.	<b>Dr. Nataliya Kutsevol</b> (Ukraine) "Temperature-responsive smart nanocarriers for delivery of anticancer drugs: recent advances and disadvantages"
87.	<b>Prof. Sergii Prokhorenko</b> (Ukraine) "Blood Serum SERS Based on Subtract Nanoparticles Carried into Slides Diagnosis"
<b>Section "Nanocomposites and nanomaterials" (4)</b>	
88.	<b>Dr. Marcela Achimovičová</b> (Slovakia) "Simple preparation and study of surface-modified mechanochemically synthesized CuS"
89.	<b>Dr. Yuriy Azhniuk</b> (Ukraine) "Formation of molecular Se <sub>2</sub> dimers in semiconductor nanocrystal-doped borosilicate glasses"
90.	<b>PhD student Magdalena Ziężio</b> (Poland) "The effect of surface chemical modification on the properties of synthetic active carbons"
91.	<b>Dr. Andrii Melnyk</b> (Ukraine) "EPR characterization of FEP-PAA-Ag nanoparticles composite"
92.	<b>Prof. Lyubov Kharkhalis</b> (Ukraine) "Spatial confinement effect on the electronic and optical properties of the β-InSe hexagonal crystal"
93.	<b>Dr. Pawel Sikora</b> (German) "Effects of nanostructured calcium silicate hydrate (C-S-H) seeds on model microorganisms", "An overview on the effects of nanomaterials on the properties of alkali-activated materials", "Effects of nanosilica and seawater on the early-age performance of blended cements"
94.	<b>PhD student Andrii Bodnaruk</b> (Ukraine) "Critical behavior of ensembles of superparamagnetic nanoparticles with a variance of magnetic parameters"
95.	<b>PhD student Artem Shylo</b> (Ukraine) "Conductivity of hydrated nanopowder systems based on zirconia under the influence of an external electric field"
96.	<b>PhD student Mária Kováčová</b> (Slovakia) "Bio-mechanochemical synthesis of silver nanoparticles using plants"
97.	<b>PhD student Maksim Aliksandrov</b> (Ukraine) "Mechanical and optical properties of polyethylene and polyvinylchloride composites with methylene blue dye"
98.	<b>Prof. Ihor Kobasa</b> (Ukraine) "Photochemical interactions between the polymethine dye consisting of three conjugated chromophores and TiO <sub>2</sub> ", "Photocatalytic properties of the heterostructures based on TiO <sub>2</sub> and TiO <sub>2</sub> -CdTe with a polymethine dye", "Solar cells based on perovskite, titanium dioxide and a dye-sensitizer"
99.	<b>Prof. Huseyin Unver</b> (TURKEY) "Synthesis, DFT Calculations, Molecular Docking Studies and Anion Sensor Properties of a New Schiff Base"
100.	<b>Dr. Nataliya Stetsenko</b> (Ukraine) "Fluctuation model of instability and contact bond break in carbyne-graphene nanoelements"
101.	<b>Dr. Rada Savkina</b> (Ukraine) "Diamond-like carbon nanocomposites"
102.	<b>Prof. Barbara Charnas</b> (Poland) "Preparation of metal-doped carbon/silica composites by mechanochemical grinding"
103.	<b>PhD student Kseniia Dremluzhenko</b> (Ukraine) "Properties of CdTe nanocrystals doped with manganese"
104.	<b>Dr. Adam Ingram</b> (Poland) "Positron trapping-reduction processes in the engineering of functionally-optimized polymer-matrix nanocomposites: the case of PVP-capped glassy arsenoselenides"
105.	<b>Dr. Katarzyna Jedynak</b> (Poland) "Synthesis and physicochemical properties of metal-organic frameworks (MOFs)", "Removal of methylene blue and methyl orange from aqueous solutions by ordered micro-mesoporous carbon obtained by the soft-templating method"
106.	<b>Dr. Beata Szczepanik</b> (Poland) "Morphological, structural and photocatalytic properties of TiO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> /halloysite nanocomposite", "Carbon hybridized nanotubes for adsorption of selected non-steroidal anti-inflammatory drugs (NSAIDs) from aqueous solution"
107.	<b>Dr. Galyna Tsapyuk</b> (Ukraine) "Catalytic properties of bimetallic catalysts supported on nanocarbon in the reaction of CO <sub>2</sub> hydrogenation"
108.	<b>Prof. Yuriy Kostiv</b> (Ukraine) "Structural investigations of the BaGa <sub>2</sub> O <sub>4</sub> ceramics doped with Eu <sup>3+</sup> ions", "Transformation of free volumes in the Cu <sub>0.1</sub> Ni <sub>0.8</sub> Co <sub>0.2</sub> Mn <sub>1.9</sub> O <sub>4</sub> ceramics caused by interphase mass-transfer processes"
109.	<b>PhD student Yuliia Gusieva</b> (Ukraine) "Spin wave excitations in magnetic bilayers with inhomogeneous interface"
110.	<b>PhD student Martyna Tupikowska</b> (Poland) "The liquid crystal nanohelices as a template to self-organisation of metal nanoparticles"
111.	<b>Prof. Yuriy Plevachuk</b> (Ukraine) "Nanocomposite SAC solder joints: morphology and mechanical properties of Sn-3.0Ag-0.5Cu solder joints by adding ceramic nanoparticles through flux doping"
112.	<b>Prof. Yuriy Plevachuk</b> (Ukraine) "The effect of CoPd nanoparticles on the morphology and shear strength of the Sn-3.0Ag-0.5Cu/Cu solders joint"
113.	<b>Dr. Tetiana Dontsova</b> (Ukraine) "New effective nanocomposite for removing dyes"
114.	<b>Prof. Anatoliy Evtukh</b> (Ukraine) "Electrical conductivity of silicon oxide films with Si and Fe nanoclusters"
115.	<b>Dr. Olha Pylypova</b> (Ukraine) "Composite polymer films with semiconductor nanocrystals for organic optoelectronics"



**Friday, 30.08.2019**  
**(12 Stepan Bandera Street in front of Conference Hall)**

**Section "Nanocomposites and nanomaterials"**

1.	<b>Dr. Anton Lytvynenko</b> (Ukraine) "Influence of synthetic conditions on structure of nanoporous metal (Cu, Ag) foams and their composites with MOFs"
2.	<b>PhD student Denys Mazur</b> (Ukraine) "Bifunctional Co-N-C nanoelectrocatalysts derived from poly-5-aminindole for overall water splitting"
3.	<b>Prof. Tatyana Rodionova</b> (Ukraine) "Relative grain-boundary energy in equiaxed and fibrous undoped silicon films"
4.	<b>PhD student Shevelieva Kateryna</b> (Ukraine) "The structure of the alloy $\text{Cu}_{47}\text{Ni}_8\text{Ti}_{34}\text{Zr}_{11}$ obtained under isothermal conditions of quenching from the liquid state"
5.	<b>PhD student Liubov Revutska</b> (Ukraine) "XRD and Raman studies of structural peculiarities of chalcogenide glasses"
6.	<b>PhD student Mariia Yakoviv</b> (Ukraine) "New lipophilic fluorescein derivatives for molecular imaging"
7.	<b>Dr. Sergiy Varvarenko</b> (Ukraine) "Formation of polyacrylamide hydrogels filled with magnetite"
8.	<b>Ms. Yulia Horbenko</b> (Ukraine) "Structure and properties of polyaniline nanocomposites with noble metals"
9.	<b>Dr. Viktoriya Podhurska</b> (Ukraine) "Improvement of wear resistance of materials for electric vehicles pantographs"
10.	<b>PhD student Olena Sanzhak</b> (Ukraine) "New Ti-containing catalyst synthesized by ion implantation method"
11.	<b>Prof. Yaroslav Zhydachevskyy</b> (Poland) "Time-resolved pulsed OSL readout of ceramic YAP:Mn phosphors"
12.	<b>Dr. Oleksandr Kushnerov</b> (Ukraine) "Structure and properties of nanostructured metallic glass of the Fe-B-Co-Nb-Ni-Si high entropy alloy system"
13.	<b>Prof. Yaroslav Lepikh</b> (Ukraine) "Influence of the current-carrying phase dispersity on the electrophysical parameters of nanocomposites on the basis of "glass – Ru compounds""
14.	<b>PhD student Oleg Lozitsky</b> (Ukraine) "Dielectric and microwave shielding properties of three-phase composites graphite nanoplatelets/carbonyl iron/epoxy resin", "Electrodynamical properties of epoxy composites with mixed filler graphite nanoplatelets/TiO <sub>2</sub> "
15.	<b>Dr. Oleksii Diachenko</b> (Ukraine) "The optical properties of coated nanoparticles on the substrates by spray pyrolysis"
16.	<b>Dr. Olga Kozarenko</b> (Ukraine) "Electrocatalytic properties of the mechanochemically prepared 2D-materials in hydrogen and oxygen reduction reactions"
17.	<b>Engineer Natalia Grabovaya</b> (Ukraine) "Composites of magnetic nanoparticles and polymers for non-destructive flaw detection"
18.	<b>Dr. Iryna Galstian</b> (Ukraine) "Metal-carbon nanocomposites for electrodes of low-temperature thermionic energy converters"
19.	<b>Dr. Antonina Maizelis</b> (Ukraine) "Nanostructured multilayer metal hydroxide coatings as cathode and anode materials"
20.	<b>PhD student Andrii Voronkin</b> (Ukraine) "Dopant concentration effect on fungi resistant of nonlinear polymer nanocomposites"
21.	<b>PhD student Ivan Shepa</b> (Slovakia) "Nanoceramic materials by needle-less electrospraying"
22.	<b>Dr. Veronika Tomina</b> (Ukraine) "Synthesis of hybrid silica materials with ethylenediamine functional groups"
23.	<b>PhD student Olena Bondar</b> (Ukraine) "Preparation of ZnO nanopowders by sol-gel technique and studying their properties", "(Cd, Pb) iodide nanocluster films: synthesis and characterization"
24.	<b>PhD student Oleksii Syvolozhskyy</b> (Ukraine) "Electrical conductivity and percolation characteristics of hybrid polymer composites with different ratios of nanocarbon fillers", "Electro-transport properties of nanocarbon structures modified with nickel and iron"
25.	<b>Dr. Olena Yakovenko</b> (Ukraine) "Effect of magnetic fillers and their orientation on the electromagnetic properties of $\text{BaFe}_{12-x}\text{Ga}_x\text{O}_{19}$ ( $x=0.1-1.2$ )–epoxy composites within GHz range"
26.	<b>PhD student Yulia Prikhozha</b> (Ukraine) "The Comparison of Intercalation of Na and Li Atoms in a $\text{SnS}_2$ Anode of Battery: ab initio Calculation"
27.	<b>PhD student Yuriy Shapovalov</b> (Ukraine) "Phase transformation induced by superplastic creep in the eutectic Sn-38wt%Pb alloy", "Exceptional Mechanical Properties and Microstructures of High Entropy Alloy CoCrFeNiMn after High Pressure Torsion at 300 and 77 K"
28.	<b>Dr. Olena Vatazhuk</b> (Ukraine) "Low-temperature dynamic relaxation in nanostructured metals"
29.	<b>Dr. Mykhailo Nahorniak</b> (Ukraine) "Polysaccharide based microhydrogels synthesized using Steglich esterification"
30.	<b>PhD student Natalya Opanashchuk</b> (Ukraine) "The peculiarities of synthesis and of adsorptive characteristics of composites $\text{Fe}_3\text{O}_4/\text{Al}_2\text{O}_3/\text{C}$ "
31.	<b>Dr. Olha Shpotyuk</b> (Ukraine) "Light-curing effects in acrylic-type dental restorative composites probed by annihilating positrons"
32.	<b>PhD student Oksana Cherniuk</b> (Ukraine) "Research of structures made of polymer composite materials filled with carbon nanotubes"
33.	<b>PhD student Juliia Grebelna</b> (Ukraine) "Carbon-carbon composite material thermo-expanded graphite – carbon nanotubes"
34.	<b>PhD student Denys Shpylka</b> (Ukraine) "Transport properties of carbon nanotubes with different degrees of structural perfection"
35.	<b>PhD student Anastasiia Solomenko</b> (Ukraine) "Strategy of creating integrated lateral p-n junctions in two-dimensional materials by adsorption of atoms or molecules"
36.	<b>Dr. Yulia Nykyruy</b> (Ukraine) "Structure and phase transformations of amorphous-nanocrystalline Al-based alloys"
37.	<b>Prof. Mykhailo Trubitsyn</b> (Ukraine) "Relaxation of complex impedance in nano- and microcrystalline $\text{Li}_2\text{O}_x\text{GeO}_2$ "
38.	<b>PhD student Eugene Kolyvoshko</b> (Ukraine) "The Effect of Zero-point Vibrations on the Lifetime of Carbyne-Graphene Nanoelements"
39.	<b>Dr. Mariia Galaburda</b> (Ukraine) "Structural and adsorption properties of carbon-inorganic sorbents filled with $\text{Al}_2\text{O}_3$ "
40.	<b>Dr. Igor Olenych</b> (Ukraine) "Low-temperature study of electrical properties of porous silicon/graphene-based nanostructures", "Poly(3,4-ethylenedioxythiophene)/carbon-based nanocomposite for gas sensing"
41.	<b>Dr. Iryna Yaremchuk</b> (Ukraine) "Photocatalytic Activity of $\text{TiO}_2$ and $\text{TiO}_2\text{:S}$ Nanopowders Under Visible Light", "Core-shell nanostructures under localized plasmon resonance conditions"
42.	<b>Dr. Nataliya Stolyarchuk</b> (Ukraine) "Advances in the synthesis and sorption application of amino-functionalized mesoporous materials"

43.	<b>Dr. Dmytro Korablov</b> (Ukraine) "Nanostructured materials based on refractory compounds for hydrogen energy technologies"
44.	<b>Dr. Andriy Kussyak</b> (Ukraine) "The adsorption of doxorubicine by monodispersed nanospheres of magnetite"
45.	<b>PhD student Yana Matvienko</b> (Ukraine) "Formation of metastable structures in powder and multilayered Cu-Al nanocomposites"
46.	<b>Prof. Vitalij Danilchenko</b> (Ukraine) "Formation of ultrafine structure of armco iron after laser pulse treatment"
47.	<b>Dr. Serhii Radio</b> (Ukraine) "Substitution limits and stability of $\text{Ln}_x\text{Sc}_{2-x}\text{SiO}_5$ solid solutions to be used for multi-nanolayer films"
48.	<b>PhD student Mary Chaban</b> (Ukraine) "Graphene oxide and its composites: adsorption properties"
49.	<b>PhD student Volodymyr Zakharov</b> (Ukraine) "Ultrafiltration membranes modified with nanocomposite containing graphene oxide"
50.	<b>PhD student Nikita Liedienov</b> (Ukraine) "Structure and optical properties of nanostructured $\text{CN}_x$ -Diamond core/shell"
51.	<b>Dr. Andrey Kuzmich</b> (Ukraine) "Photoacoustic investigation of dyes and carbon nanoparticles diffusion in agarose hydrogel"
52.	<b>PhD student Karolina Kucio</b> (Poland) "Mechanochemistry as a method of obtaining nanomaterials with photocatalytic properties"
53.	<b>PhD student Maciej Bagiński</b> (Poland) "Monodomains made of liquid-crystalline metal nanoparticles"
54.	<b>Dr. Oleh Molebnyi</b> (Ukraine) "Peculiarities of the formation of highly dispersed refractory Zr trialuminides in aluminum alloys"
55.	<b>Dr. Halyna Starukh</b> (Ukraine) "Cu-contained layered double hydroxides for $\text{CO}_2$ photoconversion"
56.	<b>Prof. Sergiy Revo</b> (Ukraine) "Ferromagnetism of iron-copper nanocomposites"
57.	<b>Dr. Dmytro Zhulai</b> (Ukraine) "Dember effect of nanocomposites based on ionic liquid crystals with semiconductor nanoparticles"
58.	<b>Dr. Vasyl Berezhovets</b> (Ukraine) "Composites of magnesium hydride with catalytic nanoadditives"
59.	<b>Dr. Volodymyr Shcheretskyi</b> (Ukraine) "Regimes for solid bulk composite layers production of Cu alloy-based nanocomposites with the disperse oxides and carbides"
60.	<b>Dr. Nataliya Nosova</b> (Ukraine) "Synthesis and properties of hydrogels filled with dispersed nanoparticles"
61.	<b>Dr. Yuliia Kosminska</b> (Ukraine) "Synthesis of multicomponent metal and carbon coatings by modified magnetron sputtering of a rod-like target"
62.	<b>PhD student Yuliia Harahuts</b> (Ukraine) "Laser driven behavior of the nanosystem used for the photodynamic therapy"
63.	<b>Dr. Yuriy Kobljanskyj</b> (Ukraine) "FMR in the ribbons of $\text{Fe}_{73.5}\text{Cu}_1\text{Nb}_3\text{Si}_{13.5}\text{B}_9$ "
64.	<b>Dr. Halina Mykhailova</b> (Ukraine) "Influence of different type of irradiation to carbon nanotubes"
65.	<b>Dr. Orest Fliunt</b> (Ukraine) "Analysis of stress dependence of giant piezo-dielectric effect in high-resistivity GaSe crystals"
66.	<b>Prof. Nikolay Kornienko</b> (Ukraine) "The Spectral Manifestation of Nonlinear Resonant Wave Interactions in Vibrational Spectra of Dichalcogenides $\text{MeX}_2$ "
67.	<b>Prof. Halyna Klym</b> (Ukraine) "Adsorption-desorption processes in nanostructured $\text{MgAl}_2\text{O}_4$ ceramics", "Crystallization processes and optical properties of Ge-Ga-Se glasses", "Water-adsorption processes on the modified $\text{MgO-Al}_2\text{O}_3$ ceramics studied in the frequency domain", "Structural and electrical properties of single- and multilayered thick-film nanostructures"
68.	<b>Dr. Ivan Karbovnyk</b> (Ukraine) "Systematic study of luminescent nanostructured films on pre-modified substrates", "Electrical and structural characterization of PEDOT:PSS composites reinforced with single/multi-walled carbon nanotubes"
69.	<b>Dr. Razet Basnukaeva</b> (Ukraine) "Features of effect of cold plasma treatment on hydrogen sorption by graphene oxide"
70.	<b>Dr. Alexander Khovavko</b> (Ukraine) "Influence of spent gases recirculation on carbon nanomaterial yield obtained from the products of methane air conversion"
71.	<b>Dr. Vitalii Lytvyn</b> (Ukraine) "Enhanced fluorescence in the system polymer matrix-dye-high-conductive nanostructure arrays"
72.	<b>Dr. Roman Kozakevych</b> (Ukraine) "Preparation and characterization of biodegradable biopolymer film for Dural Substitute"
73.	<b>Dr. Oleksandr Dobrozhan</b> (Ukraine) Structural properties of flexible $\text{Cu}_2\text{ZnSnS}_4$ thin films, ink-jet printed by using polyol nanocrystals
74.	<b>Prof. Tetyana Lebyedyeva</b> (Ukraine) "Sensory coatings for SPR detectors with increased sensitivity"
75.	<b>Dr. Oleg Lytvynenko</b> (Ukraine) "Nanocoatings on 2D macroporous silicon structures"
76.	<b>Assoc. Prof. Viktoriya Vorobiova</b> (Ukraine) "Investigations of the inhibitive effect of the apricot pomace extract self-assembling nanofilms on corrosion of carbon steel"
77.	<b>Prof. Serhii Revo</b> (Ukraine) "Influence of the multiwall carbon nanotubes on properties of the Fe-Cu composites"
78.	<b>Prof. Zoya Duriagina</b> (Ukraine) "Optimal filling of a given volume with spherical and non-spherical powders for additive manufacturing"
79.	<b>Dr. Vasilios Stavrou</b> (GREECE) "Spin-flip relaxation mechanism in Self-Assembled Quantum Dots via the emission of phonons"
80.	<b>Dr. Svetlana Vasylyuk</b> (Ukraine) "The water influence on thermophysical and electrical properties of composite on nanocellulose basis", "About possible mechanisms of nanoconductivity in polymethines: the charge solitons at external fields"
81.	<b>Dr. Anna V. Potapenko</b> (China, Ukraine) "Nanosized NCM 811 electrode material for high-rate lithium-ion batteries"
82.	<b>Assoc. Prof. Yana Polonska</b> (Ukraine) "The sorption properties of saponite in situ modified of poly[4-metacroyloxy-(4'-carboxy-2'-nitro)-azobenzene] to toxic metals ions"
83.	<b>Dr. Vadym Tsvitkovskyi</b> (Ukraine) "RF -dynamics of vortex kinks in the mixed state of type-II superconductors with extended columnar defects"



## **Networking and culture Programme of NANO-2019!**

Also, please note that we are planning to organize the Networking and culture Programme!

- At the 1st day (on 27 of August 2019, at 8 p.m.) will be Networking Party (small excursion + violinist in the Monument of architecture of Lviv "House of Scientists"). You can join it by free registration: <https://forms.gle/nT8gYsRVpvhqqrAy5> or please register on the Conference Registration desk. It's need to take the Invitation for this event at the Conference Registration desk.

- At the 2nd day (on 28 of August, at 18:30-21:00) will be organized the Conference networking party and excursion. This event includes:

1. The Excursion to the Museum-cultural complex "Lvivarnya".
2. The Tasting at the "Hop's House of Robert Dom" of four beers produced at "Lviv Brewery" and two types of snacks Cost of the participation - 250 hrivna (UAH) or 10 Euros .

You can register by the link: <https://forms.gle/DZTGZZ7SctKTbmWUA> or on the Conference Registration desk till the end of 27 August 2019!

It's need to take the tickets for this event at the Conference Registration desk.

- At 28-29 August, 13:00-14:00 will be organized free excursion in Lviv National Polytechnic University. You can register on it on registration table.

- In 29 August, 18:00 and 30 August 15:00 will be organized the excursion around Lviv. Cost of the excursion: 30 UAH. You can register for it on the Conference registration table.

If you have any question, please write on Conference e-mail: [conference.nano@gmail.com](mailto:conference.nano@gmail.com)

If you have urgent question or need help, please contact us by mobile phone:

+380674076798 (Fesenko Olena).

**Have a nice and safe trip and see you in NANO-2019 in Lviv!**