

МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ
ДВНЗ «Прикарпатський національний університет імені Василя Стефаника»
Фізико-хімічний інститут

ННЦ «Наноматеріали в пристроях генерування та накопичення енергії»

АКАДЕМІЯ НАУК ВИЩОЇ ШКОЛИ УКРАЇНИ
ДЕРЖАВНЕ АГЕНТСТВО З ПИТАНЬ НАУКИ, ІННОВАЦІЇ ТА ІНФОРМАЦІЇ УКРАЇНИ

Державний фонд фундаментальних досліджень

НАЦІОНАЛЬНА АКАДЕМІЯ НАУК УКРАЇНИ

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Інститут хімії поверхні ім. О.О. Чуйка

Інститут металофізики ім. Г.В. Курдюмова

Інститут загальної і неорганічної хімії ім. В.І. Вернадського

Українське фізичне товариство

Івано-Франківський ЦНТІ

Інститут інноваційних досліджень

Інститут загальної фізики РАН (Російська Федерація)

Інститут фізики ім. Б.І. Степанова НАН Білорусі (Республіка Білорусь)

Університет Газі (Туреччина)

XIV МІЖНАРОДНА КОНФЕРЕНЦІЯ З ФІЗИКИ І ТЕХНОЛОГІЇ
ТОНКИХ ПЛІВОК ТА НАНОСИСТЕМ

Програма

Івано-Франківськ, 20-25 травня, 2013

Ivano-Frankivsk, May, 20-25, 2013

Program

XIV INTERNATIONAL CONFERENCE ON PHYSICS AND TECHNOLOGY
OF THIN FILMS AND NANOSYSTEMS

Gazy University (Turkey)

Institute of General Physics RAS (Russia)

B.I. Stepanov Institute of Physics NAS of Belarus (Belarus)

Ukraine Physics Society

Ivano-Frankivsk CSII

Institute of innovation research

NATIONAL ACADEMY OF SCIENCE OF UKRAINE

V.E. Lashkarev Institute of Semiconductor Physics

Chuiko Institute of Surface Chemistry

G.V. Kurdyumov Institute of the Physics of Metals

V.I. Vernadsky Institute of General and Inorganic Chemistry

STATE AGENCY OF SCIENCE, INNOVATION AND INFORMATION OF UKRAINE

State Fund of Fundamental Research

ACADEMY OF SCIENCE OF HIGH SCHOOL OF UKRAINE

MINISTRY OF EDUCATION AND SCIENCE, YOUTH AND SPORT OF UKRAINE

Vasyl Stefanyk Precarpathian National University

Physical-Chemical Institute

SEC "Nanomaterials in Accumulation and Generation of Energy Devices"

ОРГАНІЗАЦІЙНИЙ КОМІТЕТ

Бюро

Загороднюк А., Литовченко В., Фреїк Д.

Міжнародний

Анатичук Л. (Україна), Ахиска Р. (Туреччина), Бабанли М. (Азербайджан), Беляєв О. (Україна), Блонський І. (Україна), Бродин М. (Україна), Булавін Л. (Україна), Власенко О. (Україна), Волков С. (Україна), Вуйцік В. (Польща), Галушак М. (Україна), Горбик П. (Україна), Готра З. (Україна), Грігоніс А. (Литва), Гриньов Б. (Україна), Гуревич Ю. (Мексика), Жуковські П. (Польща), Зломанов В. (Росія), Івасишин О. (Україна), Калінкін І. (Росія), Картель М. (Україна), Кияк Б. (Україна), Кікінеші О. (Угорщина), Комаров Ф. (Білорусь), Кучмій С. (Україна), Мазуренко Є. (Україна), Малашкевич Г. (Білорусь), Мачулін В. (Україна), Мітгова І. (Росія), Младенов Г. (Болгарія), Мовчан Б. (Україна), Наумовець А. (Україна), Находкін М. (Україна), Нікіфоров К. (Росія), Новиков М. (Україна), Остафійчук Б. (Україна), Панасюк В. (Україна), Птушинський Ю. (Україна), Раренко І. (Україна), Свечніков С. (Україна), Сидоренко С. (Україна), Сизов Ф. (Україна), Скатков Л. (Ізраїль), Солонін Ю. (Україна), Стасюк І. (Україна), Стріха М. (Україна), Харченко М. (Україна), Челідзе Т. (Грузія), Чобанюк В. (Україна), Тигиняну І. (Молдова), Томчук П. (Україна), Уваров В. (Україна), Фірстов С. (Україна), Фістуль В. (Росія), Шпілевський Е. (Білорусь), Шпотюк О. (Україна)

Національний

Бойчук В. (Дрогобич), Буджак Я. (Львів), Гасюк І. (Івано-Франківськ), Дзумедзей Р. (Івано-Франківськ), Дзундза Б. (Івано-Франківськ), Дмитрук М. (Київ), Дружинін А. (Львів), Запухляк Р. (Івано-Франківськ), Зауличний Я. (Київ), Зінченко В. (Одеса), Зиман З. (Харків), Ігнатенко П. (Донецьк), Кідалов В. (Бердянськ), Кланічка В. (Івано-Франківськ), Коваленко О. (Дніпропетровськ), Корбутяк Д. (Київ), Куницький Ю. (Київ), Лашкарьов Г. (Київ), Лепіх Я. (Одеса), Ліщинський І. (Івано-Франківськ), Лоп'янко М. (Івано-Франківськ), Матвєєва Л. (Київ), Мельничук О. (Ніжин), Миколайчук О. (Львів), Миронюк І. (Івано-Франківськ), Никируй Л. (Івано-Франківськ), Похмурський В. (Львів), Прокопів В. (Івано-Франківськ), Проценко І. (Суми), Прокопенко І. (Київ), Птащенко О. (Одеса), Рогачова О. (Харків), Рубіш В. (Ужгород), Рувінський М. (Івано-Франківськ), Серєда Б. (Запоріжжя), Смертенко П. (Київ), Стасюк З. (Львів), Стронський О. (Київ), Студеняк І. (Ужгород), Ткач М. (Чернівці), Томашик В. (Київ), Чуйко Г. (Херсон)

Секретаріат

Межиловська Л. – вчений секретар конференції

Борик В., Гургула Г., Парашук Т., Потяк В., Соколов О. – секретарі

ORGANIZING COMMITTEE

Bureau

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V. Boychuk (Drogobych), **Ya. Budzhak** (Lviv), **G. Chuyko** (Kherson), **M. Dmytruk** (Kyiv), **A. Druzhynin** (Lviv), **R. Dzumedzey** (Ivano-Frankivsk), **B. Dzundza** (Ivano-Frankivsk), **I. Gasyuk** (Ivano-Frankivsk), **P. Ignatenko** (Donetsk), **V. Kidalov** (Berdyansk), **V. Klanichka** (Ivano-Frankivsk), **D. Korbutyak** (Kyiv), **O. Kovalenko** (Dnipropetrovsk), **Yu. Kunitskiy** (Kyiv), **G. Lashkaryov** (Kyiv), **I. Lepikh** (Odesa), **I. Lishchynskyy** (Ivano-Frankivsk), **M. Lopyanko** (Ivano-Frankivsk), **L. Matveeva** (Kyiv), **Yu. Melnychuk** (Nizhyn), **O. Mykolaychuk** (Lviv), **I. Myronyuk** (Ukraine), **L. Nykyruy** (Ivano-Frankivsk), **V. Pohmursjkyy** (Lviv), **V. Prokopiv** (Ivano-Frankivsk), **I. Protsenko** (Sumy), **I. Prokopenko** (Kyiv), **O. Ptashchenko** (Odesa), **O. Rogachova** (Kharkiv), **V. Rubish** (Uzhgorod), **M. Ruvinsky** (Ivano-Frankivsk), **B. Sereda** (Zaporizzhya), **P. Smertenko** (Kyiv), **Z. Stasyuk** (Lviv), **O. Stronsjkyy** (Kyiv), **I. Studenyak** (Uzhgorod), **M. Tkach** (Chernivtsi), **V. Tomashyk** (Kyiv), **R. Zapykhlyak** (Ivano-Frankivsk), **I. Zaulychnyy** (Kyiv), **Z. Zyman** (Kharkiv), **V. Zinchenko** (Odesa)

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Scientific Secretary – **L. Mezhylovska**

Secretaries – **V. Boryk, G. Gurgula, T. Parashchuk, V. Potyak, O. Sokolov**

ТЕМАТИКА СЕКЦІЙ

Секція I

Технологія тонких плівок (метали, напівпровідники, діелектрики, провідні полімери) і методи їх дослідження

Секція II

Нанотехнології, наноматеріали і квантово-розмірні структури

Секція III

Фізико-хімічні властивості тонких плівок

Секція IV

Тонкоплівкові елементи електронних пристроїв, наноелектроніка

Секція V

Функціональні кристалічні матеріали: ріст, фізичні властивості, використання

МОВИ КОНФЕРЕНЦІЇ:

Українська
Англійська
Російська

TOPICS

Session I

Thin films technology (metals, semiconductors, dielectrics, conductive polymers) and their research methods

Session II

Nanotechnologies and nanomaterials, quantum-size structures

Session III

Physical-chemical properties of the films

Session IV

Thin film compounds for electronic devices

Session V

Crystal's growth and their physical properties

LANGUAGES:

Ukrainian
English
Russian

ПУБЛІКАЦІЯ МАТЕРІАЛІВ КОНФЕРЕНЦІЇ

Планується публікація тез доповідей та матеріалів конференції.

Кращі доповіді конференції будуть рекомендовані до друку у всеукраїнському науковому журналі "Фізика і хімія твердого тіла" (ISSN 1729-4428), який є фаховим виданням із фізико-математичних, хімічних та технічних наук (постанова президії ВАК України № 2-05/9 від 14.11.2001 та №1-05/4 від 26.05.2010). Інформація про правила оформлення матеріалів для подання у редакцію журналу ФХТТ знаходиться в оргкомітеті конференції або на веб-сторінці журналу: http://www.pu.if.ua/inst/phys_che/start/pcss.

CONFERENCE PUBLISHING

In addition to the technical program, the best papers will be published in the scientific journal "Physics and Chemistry of Solid State" (ISSN 1729-4428). Journal include to list of refered journals of High attestation Commission of Ukraine under license number 2-05/9 from 14.11.2001 and 1-05/4 from 26.05.2010 at following scientific directions: physics&mathematics, chemistry, and engineering. Information for authors occupied on PCSS journal web-page: http://www.pu.if.ua/inst/phys_che/start/pcss.

ГРАФІК РОБОТИ МКФТІПН-ХІВ

Дата Година	20 травня, понеділок	21 травня, вівторок	22 травня, середа	23 травня, четвер	24 травня, п'ятниця	25 травня, субота
7 ⁰⁰ -9 ⁰⁰		Сніданок	Сніданок	Сніданок	Сніданок	Сніданок
9 ⁰⁰ -11 ⁰⁰	Реєстрація учасників	Відкриття конференції. Пленарне засідання		Пленарне засідання	Пленарне засідання	
11 ⁰⁰ -11 ³⁰		Кавова пауза		Кавова пауза		
11 ³⁰ -13 ³⁰		Пленарне засідання		Секційні засідання	Секційні засідання	
14 ⁰⁰ -15 ³⁰	Обід	Обід		Обід	Обід	
15 ³⁰ -17 ³⁰	- Наукова програма	Секційні засідання		Секційні засідання	Секційні засідання	
17 ³⁰ -18 ⁰⁰	НАТО (відеозв'язок із Брюсселем)	Кавова пауза		Кавова пауза	Кавова пауза	
18 ⁰⁰ -18 ³⁰		С-1,5		С-3,4	С-2	
	Кавова пауза		Похід в гори (сходження на гору «Синяк», 1665 м) Експерсії			Від'їзд учасників конференції
18 ³⁰ -19 ³⁰	- CRDFGlobal: місія в Україні - Від РІП ЄС до Horizon-2020 - Засідання наукової ради «Фізика напівпровідників та напівпровідникові пристрої» при ВФАНАН України	Секційні засідання		Секційні засідання	Закриття конференції	
19 ³⁰ -20 ³⁰		Вечеря Концерт.		Вечеря	Вечеря	
20 ³⁰ -21 ⁰⁰	Вечір зустрічі	Презентація наукової школи проф. Д.М. Фрейка	Круглі столи	Товариська вечеря	Прощальна вагра	

С – стендові доповіді по вказаних секціях.

Секції:

1. Технологія тонких плівок (метали, напівпровідники, діелектрики, провідні полімери) і методи їх дослідження.
2. Нанотехнології і наноматеріали, квантово-розмірні структури.
3. Фізико-хімічні властивості плівок.
4. Тонкоплівкові елементи електронних пристроїв.
5. Функціональні кристалічні матеріали: ріст, фізичні властивості, використання.

ICPTTFN-XIV SCHEDULE

Time	Data	20 May, Mn	21 May, Tu	22 May, Wn	23 May, Th	24 May, Fr	25 May, Sun
7 ³⁰ -9 ⁰⁰			<i>Breakfast</i>	<i>Breakfast</i>	<i>Breakfast</i>	<i>Breakfast</i>	<i>Breakfast</i>
9 ⁰⁰ -11 ⁰⁰		Registration	Conference Opening Plenary session		Plenary session	Plenary session	
11 ⁰⁰ -11 ³⁰			<i>Coffee-break</i>		<i>Coffee-break</i>		
11 ³⁰ -13 ³⁰			Plenary session		Oral sessions	Oral sessions	
14 ⁰⁰ -15 ³⁰		<i>Lunch</i>	<i>Lunch</i>		<i>Lunch</i>	<i>Lunch</i>	
15 ³⁰ -17 ³⁰		- NATP SpS Program (joint video-session with Brussels, Belgium)	Oral sessions		Oral sessions	Oral sessions	
17 ³⁰ -18 ⁰⁰			<i>Coffee-break</i>		<i>Coffee-break</i>		
18 ⁰⁰ -18 ³⁰		<i>Coffee-break</i>	P-1,5		P-3,4	P-2	
18 ³⁰ -19 ³⁰		- CRDFGlobal: Missing in Ukraine - From FP7 EU to Horison-2020 - Session for scientific council «Semiconductor Physics and Semiconductor Devices» NAS of Ukraine	Oral sessions	Hike in the mountains (climbing mount 'Synyak' – 1665 m) Excursions	Oral sessions	Oral sessions	Departure for participants
19 ³⁰ -20 ³⁰			<i>Dinner</i>		<i>Dinner</i>	<i>Dinner</i>	
20 ³⁰ -21 ⁰⁰		Evening meeting	Concert. Presentation of the scientific school of Professor Dmytro Freik	Roundtables	Friendship supper	Farewell bonfire	

P – poster sessions.

Sections:

1. Thin films technology (metals, semiconductors, dielectrics, conductive polymers) and their research methods.
2. Nanotechnologies and nanomaterials, quantum-size structures.
3. Physical-chemical properties of the films.
4. Thin film compounds for electronic devices.
5. Crystal's growth and their physical properties

ПРОГРАМА ЗАСІДАНЬ

**Відкриття конференції
21 травня 2013 року**

**Вступне слово ректора
ДВНЗ «Прикарпатський національний університет
імені Василя Стефаника», доктора політичних наук, професора
*Цепенди Ігора Євгеновича***

**Фізика напівпровідників в Україні: досягнення та перспективи
член-кореспондент НАН України
*Литовченко Володимир Григорович***

**Роль Українського фізичного товариства в науці та суспільстві
президент Українського фізичного товариства,
доктор фізико-математичних наук, професор
*Стріха Максим Віталійович***

**Завдання міжнародної конференції з фізики і технології
тонких плівок та наноструктур
голова Оргкомітету, заслужений діяч науки і техніки України, доктор
хімічних наук, професор
*Фреїк Дмитро Михайлович***

PROGRAM OF SESSIONS

**Opening of Conference
May, 21, 2013**

**Rector of the Vasyl Stefanyk Precarpathian National University,
Doctor of Political Science, Professor
*Ihor Tsependa***

**Semiconductor Physics in Ukraine: Achievements and Prospects
Member-Correspondent NAS of Ukraine
*Volodymyr Lytovchenko***

**The Role of Ukrainian Physics Society in Science Community
President of Ukrainian Physics Society, Doctor of Science in
Physics&Mathematics, Professor
*Maxim Strikha***

**The task of the International Conference on Physics and
Technology of Thin Films and Nanosystems
Head of Organizing Committee, Doctor of Science in Chemistry, Professor
*Dmytro Freik***

**СПЕЦІАЛЬНЕ ЗАСІДАННЯ:
ПЕРСПЕКТИВИ МІЖНАРОДНОГО СПІВРОБІТНИЦТВА**
20 травня 2013 р.

**SPECIAL SESSIONS:
PROSPECTS OF INTERNATIONAL COLLABORATION**
May, 20, 2013

Session I
15⁰⁰-16³⁰

Science for Peace & Security (SPS) Programme of NATO
(Joint video-session

with Emerging Security Challenges Division (Brussels, Belgium))

Moderators: **S. Rotaenko, O. Bilous** (*Center of Information and Documentation of NATO in Ukraine, Kyiv, Ukraine, nidc@nato.kiev.ua; Science, Information and Analytical Center of NATO in Vasyl Stefanyk Precarpathian National University, Ivano-Frankivsk, Ukraine, niac_nato@pu.if.ua*)

Session II
17⁰⁰-18⁰⁰

Missing of CRDF Global in Ukraine

Moderators: **N. Artyukhovska, E. Severyanina** (*CRDF Global in Ukraine, Kyiv, Ukraine, science@ln.ua*)

Session III
18⁰⁰-18³⁰

From FP7 EU to HORIZON-2020

Moderator: **L. Nykyruy** (*National Contact Point FP7 EU in Ukraine, Ivano-Frankivsk, Ukraine, lyubomyr.nykyruy@gmail.com*)

Session IV
18⁰⁰-19⁰⁰

Meeting Scientific Branch 'Semiconductor Physics and Semiconductor Devices' of the NAS of Ukraine

Moderator: **V. Lytovchenko** (*Member-Correspondent NAS of Ukraine, V.E. Lashkarev Institute of Semiconductor Physics NAS of Ukraine, Kyiv, Ukraine, lyg@isp.kiev.ua*)

PLENARY SESSIONS

May, 20–25, 2013

1. **Ahiska R., Mamur H.** Thermoelectric Module Structures (*Gazi University, Ankara, Turkey; Cankiri Karatekin University, Cankiri, Turkey*) [454] ahiska@gazi.edu.tr
2. **Andrievski R.A.** Thin Films as Suitable Subjects for Nanomaterials Science Development (*Institute of Problems of Chemical Physics, Russian Academy of Sciences, Chernogolovka, Russia*) [128] randrievsky@gmail.com
3. **Blonskyi I.V., Kadan V.M.** Spatiotemporal Autolocalization of Femtosecond Laser Pulses in Transparent Kerr Media (*Institute of Physics NAS of Ukraine, Kyiv, Ukraine*) [160] kadan@iop.kiev.ua
4. **Bobyk M.Yu., Ivanitsky V.P., Ryaboschuk M.M.** Structure Similarity of the Amorphous and Crystalline Materials of Certain Chemical Composition (*Uzhgorod National University, Uzhgorod, Ukraine*) [135] ivancvp@yandex.ru
5. **Boichuk V.I., Bilynskyi I.V., Leshko R.Ya., Turyanska L.M.** A Spherical Quantum Dot With Two Donor Impurities (*Ivan Franko Drohobych State Pedagogical University, Drohobych, Ukraine*) [166] biligor@mail.ru
6. **Budzhak J.S.** Crystalline Thin Film PbSe as Quantum Dimensional Structure (*Lviv Polytechnic National University, Lviv, Ukraine*) [120] druzh@polynet.lviv.ua
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8. **Chornii V., Nedilko S., Hizhnyi Yu., Chukova O., Terebilenko K., Slobodyanik M., Aigouy L.** Examination of Nanosized Structures of Gold Thin Films by Scanning Fluorescent Probe Microscopy (*Taras Shevchenko National University of Kyiv, Kyiv, Ukraine; Institut de Physique, Laboratoire de Physique et d'Etude des Matériaux, ESPCI, Paris, France*) [419] vchornii@gmail.com
9. **Dmitruk N.L.** Surface-Enhanced Photophysical Phenomena and Plasmonic Photovoltaics (*Institute for Physics of Semiconductors, National Academy of Sciences of Ukraine, Kyiv, Ukraine,*) [427] dmitruk@isp.kiev.ua
10. **Druzhinin A.A., Kogut I.T., Khoverko Yu.N., Vuitsyk A.N.** Charge Carrier Transport of Polysilicon in SOI Structures at Low Temperatures (*National Lviv Polytechnic University, Lviv, Ukraine; International Laboratory of High Magnetic Fields and Low Temperatures, Wroclaw, Poland; Vasyl Stefanyk Precarpathian National University, Ivano-Frankivsk, Ukraine*) [153] druzh@polynet.lviv.ua
11. **Dzhafarov T.D., Yuksel S.A., Aydin M.** Nanoporous Silicon Layers for Hydrogen Fuel Cells (*Institute of Physics, Azerbaijan National Academy of Sciences, Baku, Azerbaijan; Department of Physics, Yildiz Technical University, Istanbul, Turkey*) [9] sureyyaayd@yahoo.com

12. **Fedorchenko M.I., Nakhodkin M.G.** Formation and Properties of Gd Nanofilms on Si(113) (*Taras Shevchenko National University, Kyiv, Ukraine*) [376] mif@univ.kiev.ua
13. **Fedorovich S.V., Protsenko I.E.** Numerical Modeling of Two-Level System Fluorescence Nearby Metallic Nano Particle With Accounting the Contribution of Tunneling of Electron From the System to the Particle (*P.N. Lebedev Physical Institute of the Russian Academy of Sciences, Moscow Plasmonics ltd, Skolkovo, Russia*) [306] svf_11@ro.ru
14. **Freik D.M.** Quantum-Size Thermoelectric Nanocomposite Structure and Technology, Their Properties and Using (*Vasyl Stefanyk Precarpathian National University, Ivano-Frankivsk, Ukraine*) [501] freik@pu.if.ua
15. **Galushchak M.O.** Influence of Technological Factors of Growing on the Defects Formation Process and Properties of Lead Chalcogenides Thin Films (*Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk, Ukraine*) [549] vonyzh@gmail.com
16. **Grygorchak I., Tovstyuk N., Fomenko V., Seredyuk B.** Kinetics of InSe Single Crystals Intercalated by Nickel (*National University "Lvivska Politehnika", S. Bandery, Lviv, Ukraine; Ivan Franko Lviv National University, Lviv, Ukraine; Academy of Land Forces named after Hetman Petro Sahaydachniy, Lviv, Ukraine*) [429] ivangr@rambler.ru
17. **Ievtushenko A.I., Lashkarev G.V., Lazorenko V.I., Klochkov L.O., Bykov O.I., Tkach V.M., Kutsay O.M., Starik S.P., Lytvyn O.S., Dusheyko M.G., Baturin V.A., Karpenko A.Y.** Effect of Layer by Layer Growth Method in Magnetron Sputtering on Deposition Transparent Conductive Aluminum Doped ZnO Thin Films (Y) (*I. Frantsevich Institute for Problems of Materials Science, NASU, Kyiv, Ukraine; Bakul Institute for Superhard Materials, Kyiv, Ukraine; V. Lashkarev Institute of Semiconductor Physic, NASU, Kyiv, Ukraine; National Technical University of Ukraine "KPI", Kyiv, Ukraine; Institute of Applied Physics, Sumy, Ukraine*) [204] earsen@ukr.net
18. **Klochko N.P., Khrypunov G.S., Myagchenko Y.O., Melnychuk E.E., Kopach V.R., Klepikova K.S., Lyubov V.M., Kopach A.V.** Possibilities of Pulse Plating for Creation of Zinc Oxide Hierarchical Nanostructures (*National Technical University "Kharkiv Polytechnic Institute", Kharkiv, Ukraine; Taras Shevchenko National University of Kyiv, Kyiv, Ukraine*) [2] klochko_np@mail.ru
19. **Kondrakhova D. M., Cheshko I.V., Protsenko I.Yu., Shabel'nyk Yu.M.** Magneto-optical and Magnetoresistive Properties of Thin Film Granular Solid Solution (*Sumy State University, Sumy, Ukraine*) [62] protsenko@aph.sumdu.edu.ua
20. **Konstantinovich A.V., Konstantinovich I.A.** Radiation Spectrum of Sequence of Electrons Moving in Spiral in Transparent Medium (*Chernivtsi National University, Chernivtsi, Ukraine; Institute of Thermoelectrics, National Academy of Sciences and Ministry of Education and Science of Ukraine, Chernivtsi, Ukraine*) [13] kneo@hotbox.ru

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22. **Kozyrski W.H., Shenderovskij V.A.** Establishment of the Ukrainian Academy of Sciences (*The Bogolubov Institute for Theoretical Physics, Kiev, Ukraine; Institute of Physics, Kiev, Ukraine*) [243] schender@iop.kiev.ua
23. **Kozytskyi S.V.** Formation of Gradient Materials ZnS by Self-Propagating High-Temperature (SHS) Synthesis (*National Maritime Academy, Odesa, Ukraine*) [99] svkozytskyi@gmail.com
24. **Krupa M.M., Sharai I.V.** Change of Magnetic Characteristics of Magnetic Nanofilms and Control Spin Current Under Laser Radiation (*Institute of Magnetism NASU, Kyiv, Ukraine*) [154] krupa@imag.kiev.ua
25. **Kurchak A.I., Morozovska A.N., Strikha M.V.** Hysteretic Phenomena in Graphene's Conductivity (*V. Lashkariov Institute of Semiconductor Physics, NAS, Kyiv, Ukraine; Institute of Physics, NAS, Kyiv, Ukraine*) [5] Maksym_strikha@hotmail.com
26. **Kutsay O.M., Garaschenko V.V., Starik S.P., Gorohov V.Yu., Tkach V.M., Gontar A.G., Ralchenko V.G., Bolshakov A.P., Ashkinazi E.E., Konov V.I., Novikov N.V.** Virtual Reality and Practical Aspects of the Diamond Polycrystalline Films Spectral Mapping (*V.N. Bakul Institute of Superhard Materials National Academy of Science of Ukraine, Kyiv, Ukraine; A.M. Prokhorov General Physics Institute Russian Academy of Science, Moscow, Russia*) [347] okutsay@gmail.com
27. **Lepikh Ya.I., Ivanchenko I.A., Budienskaya L.M.** Measuring of Radiation in the far Infrared Spectrum Region by Indirect Method (*I.I. Mechnikov national university, Odessa, Ukraine*) [195] ndl_lepikh@onu.edu.ua
28. **Li X., Kadashchuk A., Fishchuk I.I., Gelinck G., Genoe J., Heremans P., Bäessler H.** Electric Field Confinement Effect on Charge Transport in Polycrystalline Organic Thin Film Transistors (*Holst Centre/TNO, Eindhoven, The Netherlands; IMEC v.z.w., Leuven, Belgium; Institute of Physics, NAS of Ukraine, Kyiv, Ukraine; University of Bayreuth, Bayreuth, Germany*) [141] kadash@iop.kiev.ua
29. **Lobanov V.V.** Quantum Chemistry and Molecular Dynamics Methods for Calculations of the Structure and Properties of Nanosystems (*Chuiko Institute of Surface Chemistry, Kyiv, Ukraine*) [548] lobanov_victor@isc.gov.ua
30. **Lytovchenko V.G.** Properties of Catalytic-Active Compositions, Formed on the Nanoporous Layers Base (*Institute of Semiconductor Physics. VE Sci Academy of Sciences of Ukraine, Kyiv, Ukraine*) [123] lygl@isp.kiev.ua
31. **Lutsyk V.** Solidification Paths Confirmation by the Mass Balances (*Institute of Physical Materials Science, Russian Academy of Sciences, Ulan-Ude, Russia*) [318] vluts@ipms.bscnet.ru
32. **Malashkevich G.E., Lapina V.A., Opitz J. Pershukevich P.P.** Luminophors on the Basis of Activated Ultradisperse Diamond (*B.I. Stepanov Institute of Physics of the NAS of Belarus, Minsk, Belarus; Fraunhofer Institute of*

- nondestructive testing, Dresden, Germany*) [299] g.malashkevich@ifanbel.bas-net.by
33. **Matveeva L.A., Neluba P.L., Venger E.F.** Physical Properties of Nanostructures With Sige Solid Solution Thin Films (*V. Lashkaryov Institute of Semiconductor Physics NAS of Ukraine, Kyiv, Ukraine*) [45] matveeva@isp.kiev.ua
 34. **Myronyuk L.I., Chelyadyn V.L., Sachko V.M., Myronyuk I.F.** Liquid-Phase Synthesis of TiO₂ Crystalline Modifications (*Vasyl Stefanyk PreCarpathian National University, Ivano-Frankivsk, Ukraine; Public Company "Zhyvytsya", urban village Vygoda, Ukraine*) [469] myrif@rambler.ru
 35. **Nemec P., Bacso J., Makauz I., Shipljak M., Charnovich S., Kokenyesi S.** Photoinduced Effects in Ge(As)-Se Thin Films and Nanostructures (*Univeristy of Pardubice, Pardubice, Czech Republic; University of Debrecen, Debrecen, Hungary; Uzhgorod NationalUniversity, Uzhgorod, Ukraine*) [92] kiki@science.unideb.hu
 36. **Peleshchak R.M., Bachynsky I.Ya., Doroshenko M.V., Velchenko A.A., Stanko M.H., Shtym V.S.** Contact Effects in a Heterostructure Metal-Semiconductor with the Built-in Layer of Quantum Dots (*Drohobych Ivan Franko state pedagogical University, Drohobych, Ukraine; Volodymyr Dahl East Ukrainian National University, Luhansk, Ukraine*) [415] slajider@rambler.ru
 37. **Perekrestov V.I., Davydenko T.A.** Stages of Low-Dimensional 3D Systems Formation at Condensation Under Extremely Low Supersaturations (*Sumy State University, Sumy, Ukraine*) [191] perv@phe.sumdu.edu.ua
 38. **Poddubny A.N., Prokofiev A.A., Yassievich I.N.** Modeling of Optical Processes in Silicon Nanocrystals (*Ioffe Physico-Technical Institute, S.-Petersburg, Russia*) [37] irina.yassievich@mail.ioffe.ru
 39. **Ptashchenko O.O., Ptashchenko F.O., Gilmutdinova V.R., Dovganyuk G.V.** The Double Role of Nh₃ Molecules in Surface Doping of Si and Gaas P-N Junctions As GaS Sensors (*Odessa National I. I. Mechnikov University, Odessa, Ukraine; Odessa National Maritime Academy, Odessa, Ukraine*) [118] aptash@list.ru
 40. **Pylypiv V.M., Garpul O.Z.** Magnetic Structure of Subsurface Layers of Single Crystalline Yttrium-Iron Garnet Films Implanted With Si⁺ Ions With Various Energies (*Vasyl Stefanyk Precarpathian National University, 57 Shevchenko Str., Ivano-Frankivsk, Ukraine*) [156] ogorishna@ukr.net
 41. **Ralchenko V.G.** CVD Diamond Films and Single Crystals: Synthesis and Properties (*A.M. Prokhorov General Physics Institute RAS, Moscow, Russia*) [94] vg_ralchenko@mail.ru
 42. **Rogacheva E.I.** Transport Properties of Bi - Based 2D-Structures and Size Effects (*National Technical University "Kharkov Polytechnic Institute", Kharkov, Ukraine*) [391] rogachova.olena@gmail.com
 43. **Rubish V.M., Gasynets S.M., Gorina O.V., Guranich O.G., Rigan M.Yu., Shtets P.P.** Nanostructures with Ferroelectric Properties on the Glassy and

- Amorphous Chalcogenides Basis (*Uzhgorod Scientific-Technological Center of the Institute for Information Recording, NASU, Uzhgorod Ukraine*) [439] center.uzh@gmail.com
44. **Savchuk A.I., Stolyarchuk I.D., Savchuk O.A., Stefaniuk I.** Synthesis and Optical Properties of Layered Diluted Magnetic Semiconductor Based Nanoparticles (*Chernivtsi National University, Chernivtsi, Ukraine; University of Rzeszow, Rzeszow, Poland*) [171] istolyarchuk@ukr.net
 45. **Shirinyan A.S., Makara V.A., Bilogorodskyy Y.S., Komisarenko O.S.** The Effect of Thin Film Thickness of the Metallic System on the Atomic Interactions and on the Shift of Phase Diagram Curves (*Taras Shevchenko National University and National Academy of Sciences of Ukraine, Kyiv, Ukraine; Minor Academy of Sciences, Cherkasy, Ukraine*) [246] aramshirinyan@ukr.net
 46. **Shpilevsky E.M.** Thin Film of Fullerides: Preparation and Properties (A.V. Luikov of Heat and Mass Transfer Institute NAS Belarus, Minsk, Belarus) [129] eshpilevsky@rambler.ru
 47. **Stasyuk Z.V., Bihun R.I.** Electron Transport Phenomena in Ultra Thin Metal Films (*Ivan Franco Lviv national university, Lviv, Ukraine*) [395] Stasyuk@electronics.wups.lviv.ua
 48. **Tetyorkin V., Sukach A., Boiko V., Stariy S., Tkachuk A.** Photoluminescence Characterization of CdTe Polycrystalline Films (*V. Lashkaryov Institute of Semiconductor Physics NAS of Ukraine, Kyiv, Ukraine; V.Vinnichenko Kirovohrad State Pedagogical University, Kirovohrad, Ukraine*) [42] teterkin@isp.kiev.ua
 49. **Tomashik V.M., Kapush O.A., Trishchuk L.I., Tomashyk Z.F.** Synthesis and Characterization of Colloidal CdTe Nanocrystals (*V.Ye. Laskaryov Institute of Semiconductor Physics of NAS of Ukraine, Kyiv, Ukraine*) [178] tomashyk@isp.kiev.ua
 50. **Trunov M.L., Lytvyn P.M., Nagy P.M., Durkot M.O., Dyachyns'ka O.M., Rubish V.M.** Near-Field Induced Nanostructuring of Amorphous Chalcogenides: Towards to Optical-Field Nanoimaging and Optical Nanolithography (*Uzhhorod Scientific-Technological Center of the Institute for IIR, Uzhhorod, Ukraine; Uzhhorod National University, Uzhhorod, Ukraine; V. Lashkaryov Institute of Semiconductors NAS Ukraine, Kiev, Ukraine; Research Centre for Natural Science Budapest, Hungary*) [440] center.uzh@gmail.com
 51. **Tsybulskaya L.S., Gaevskaya T.V., Bekish Yu.N.** Preparation and Properties of Composite Coatings and Metal-Metalloid Alloy Coatings (*Research Institute for Physical Chemical Problems of the Belarusian State University, Minsk, Belarus*) [59] Tsybul@bsu.by
 52. **Vaksman Yu.F., Nitsuk Yu.A.** Optical Properties of ZnSe Crystals Doped With Transition Metal Elements (*I.I. Mechnikov National University, Odessa, Ukraine*) Vaksman_yu@onu.edu.ua [25]
 53. **Venger E.F., Melnichuk L.Yu., Melnichuk O.V.** Surface Plasmon-Phonon Excitations in ZnO Films Placed on Optically Anisotropic Substrates (*Institute*

- of Semiconductor Physics V. Lashkarev NAS Ukraine, Kyiv, Ukraine; Nizhyn Gogol State University, Nizhyn, Ukraine) [11] mov310@mail.ru*
54. **Yastrubchak O., Żuk J., Domagala J.Z., Andrearczyk T., Sadowski J., Wosinski T.** Impact the Sb-Cup-Covering and Annealing Treatment on the Optical and Magnetic Properties as Well as on the Electronic and Band-Structure of the (Ga,Mn)As Epitaxial Layers (*Maria Curie-Skłodowska University in Lublin, The Faculty of Mathematics, Physics and Computer Science, Institute of Physics, Lublin, Poland; Institute of Physics, Polish Academy of Sciences, Warszawa, Poland; Lund University, Lund, Sweden*) [117] yastrub@hektor.umcs.lublin.pl
55. **Zaulychnyy Ya.** Crystal-Chemical Dependence of Energy Redistribution of Valence Electrons in Nanomaterials and Increase of Oxygen Charge State at Mechanochemical Activation of Oxide Nanocomposites (*National Technical University of Ukraine “Kyiv Polytechnic Institute” Engineering-physical faculty, Kyiv, Ukraine*) [421] zaulychnyy@ukr.net
56. **Zayachuk D.M., Ilyina O.S., Pashuk A.V., Mikityuk V.I., Shlemkevych V.V., Ulyanitsky K.S., Scik A., Kaczorowsky D.** Segregation of Rare-Earth Impurity of Eu in the PbTe:Eu Crystals Grown From Doped Melts (*Lviv Polytechnic National University, Lviv, Ukraine; Yuri Fedkovich Chernivtsy National University, Chernivtsy, Ukraine; Institute of Nuclear Research, Hungarian Academy of Sciences, Debrecen, Hungary; Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Wroclaw, Poland*) [143] dzayachuk@yahoo.com
57. **Zinchenko V.F., Mozkova O.V., Chygrynov V.E., Magunov I.R.** Interaction in ZnS (ZnO) – Sb₂S₃ – Ge System and Parameters of Obtained Thin Films (*A.V. Bogatsky Physico-Chemical Institute of NAS of Ukraine, Odessa, Ukraine; State Enterprise for Special Instrument Making "Arsenal", Kyiv, Ukraine*) [140] vfzinchenko@ukr.net

ORAL REPORTS

Session 1

Thin films technology (metals, semiconductors, dielectrics, conductive polymers) and their research methods

May, 21-24, 2013

1. **Belyaev A.E., Pilipenko V.A., Petlitskaya T.V., Turtsevich A.S., Sachenko A.V., Konakova R.V., Boltovets N.S., Korostinskaya T.V., Ya.Ya Kudryk, Vinogradov A.O., Sheremet V.N.** The Features of Pd₂Si-n⁺-Si Interface Formation in Au-Pt-Ti-Pd₂Si-n⁺-Si Ohmic Contact (*V. Lashkaryov Institute of Semiconductor Physics, NAS of Ukraine, Kyiv, Ukraine; Public Corporation "Integral", Minsk, Belarus; State Enterprise Research Institute "Orion", Kyiv, Ukraine*) pet_t@tut.by [277]
2. **Butariev K.A., Koval I.P., Len Yu.A., Nakhodkin M.G.** Evidence of Oxidation System Ti/Si(001) by Ionization Spectroscopy (*Kiev Taras Shevchenko University, Kiev, Ukraine*) [250] kosth@online.ua
3. **Grin I.P., Tomilin S.V., Yanovsky A.S.** Study of Ultrathin Metal Films Conductivity During Deposition «Y» (*Zaporizhzhya National University, Zaporizhzhya, Ukraine*) [72] grin.irina@bk.ru
4. **Javorsky J.S.** Mechanisms of Growth, Structure and Properties of Thin Films and Nanostructures Pb-Sb-Te, Pb-Bi-Te Systems (*Vasyl Stefanyk Precarpathian National University, Ivano-Frankivsk, Ukraine*) freik@pu.if.ua [507]
5. **Klochko N.P., Khrypunov G.S., Volkova N.D., Kopach V.R., Momotenko O.V., Lyubov V.M.** Electrodeposition of Thin Film Stacks for Precursors of Kesterite and Chalcopyrite Solar Cells (*National Technical University "Kharkiv Polytechnic Institute", Kharkiv, Ukraine; National Aerospace University "Kharkiv Aviation Institute", Kharkiv, Ukraine*) [3] klochko_np@mail.ru
6. **Koman B.P., Juzevych V.M.** Internal Stresses, Thermodynamic Parameters and Adhesion in Metal Condensates on Single-Crystal Silicon (*Ivan Franko Lviv National University, Lviv, Ukraine; Karpenko Physicomechanical Institute, National Acad. Science of Ukraine, Lviv, Ukraine*) [131] bogdan_28@mail.ru
7. **Kosminska Yu.O., Latyshev V.M.** Influence of Normal and Tangential Growth Mechanisms Onto Formation of Three-Dimensional Porous Copper Structures (Y) (*Sumy State University, Sumy, Ukraine*) [190] kosminska@vcity.sumy.ua
8. **Kovalenko Y.I., Bondarenko M.A., Vertsanova E.V., Iatsenko I.V., Andrienko V.A., Bondarenko Y.Y.** Study of Ordered Oxide Patterns Got on the Dielectric Surfaces With the Combined Electronic Technology (*Cherkassy State Technological University, Cherkassy, Ukraine; LLC "Melitek-Ukraine" Kiev, Ukraine*) [301] maxxium@rambler.ru
9. **Larkin S.Y., Avksentev S.Y., Vakiv M.M., Krukovsky S.I., Kost Y.Y., Krukovsky R.S.** Peculiarities of the Morphology of GaAs (AlGaAs) Epitaxial

- Layers Grown on GaAs (111a) Substrates by MOCVD Epitaxy at Reduced Pressure (SPC «Nauka», Kyiv, Ukraine; SRC «Carat» Lviv, Ukraine) [98] carat207@i.ua
10. **Lebed O.N.** Technological Features of Reduction of Density of Dislocations in Epitaxial Layers of Arsenide of Gallium From a Liquid Phase When Using Isovalent Metal-Solvent (*Kherson state maritime academy, Kherson, Ukraine*) [35] lebed_lom@mail.ru
 11. **Maievska T., Sharan V.** Transparent Silicon Film: Thickness Control («Polus» research center of radioelectronics, Vinnytsa, Ukraine; Vinnytsia national technical university, Vinnytsa, Ukraine) [23] c_polus@meta.ua
 12. **Oliynich-Lysyuk A.V., Taschuk A.Yu., Raransky N.D.** Research on the Processes Occurring in the 2D-Layers of Single and Polycrystalline Materials Under Cyclic Deformation (*Yu. Fedkovych Chernivtsi National University, Chernivtsi, Ukraine*) [303] a_oliynich@ukr.net
 13. **Perevoznikov S.S., Poznyak S.K., Tsybul'skaya L.S.** Novel Method of Producing Ultrablack Ni-P Coatings (*Research Institute for Physical Chemical Problems of the Belarusian State University, Minsk, Belarus*) [60] Tsybul@bsu.by
 14. **Protsak I.S., Bolbukh Yu.N., Tertykh V.A.** Catalytic Systems for Depolymerization of Polydimethylsiloxanes (*Chuiko Institute of Surface Chemistry of National Academy of Sciences of Ukraine, Kyiv, Ukraine*) [188] iryinka29@univ.kiev.ua
 15. **Rogozin I.V., Kotlyarevsky M.B.** Fabrication of Phosphorus doped ZnO Thin Films (*Berdiansk State Pedagogical University, Berdiansk, Ukraine*) [371] rogozin@bdpu.org
 16. **Sakhnenko N.D., Lyabuk S.I., Bogoyavlenska E.V., Ovcharenko O.A., Tarnavska A.V.** Mechanical Properties of Nanostructured Composite Coatings on the of Copper or Nickel Basis (*National Technical University "Kharkiv Polytechnic Institute", Kharkiv, Ukraine*) [337] foggymorning1@rambler.ru
 17. **Sakhnenko N.D., Bykanova V.V., Proskurin N.N., Ved M.V.** Synthesis of Zirconium (IV) Oxide Thin Films on Various Substrates (*National Technical University "Kharkiv Polytechnic Institute", Kharkov, Ukraine*) [336] foggymorning1@rambler.ru
 18. **Semkina E.V., Bayrachniy B.I., Borzenko O.V., Kramarenko A.V.** Electrochemical Impedance Analysis of Anodic Aluminum Oxide Membrane (*National Technical University "Kharkiv Polytechnic Institute", Kharkov, Ukraine*) [555] semkinaelena@mail.ru
 19. **Shimko A.N., Malashkevich G.E., Freik D.M., Nykyruy L.I., Svito I.A.** Thermoelectric and Spectral Properties of Thin Films on the Basis of PbTe (*B.I.Stepanov Institute of Physics of the National Academy of Sciences of Belarus, Minsk, Belarus; Vasyl Stefanyk PreCarpathian National University, Ivano-Frankivsk, Ukraine; Belarusian State University, Minsk, Belarus*) [263] Shimko.ann@gmail.com

20. **Slipokurov V.S.** Prospects and Problems in Development of Gunn Diodes Made Of Wide-Gap Semiconductors (*V. Lashkaryov Institute of Semiconductor Physics, NAS of Ukraine, Kyiv, Ukraine*) [276] vic31slk@ukr.net
21. **Sokolov A.L., Lishchynskyy I.M., Potyak V.Yu.** The Processes of Formation and Growth Mechanisms of Vapor-Phase CdTe Condensates (*Vasyl Stefanyk Precarpathian National University, Ivano-Frankivsk, Ukraine*) [514] freik@pu.if.ua
22. **Solovan M.N., Brus V.V., Maryanchuk P.D.** Optical Properties of Titanium Nitride Thin Films (Y) (*Yuriy Fedkovych Chernivtsi National University, Chernivtsi, Ukraine*) [309] solovan-86@mail.ru
23. **Tokareva I.A., Lyashok L.V., Bayrachniy B.I., Savitsky B.A., Leshenko S.A.** Electrochemical Formation of Nanostructured Anodic Niobium Oxide (*National Technical University "Kharkov Polytechnic Institute", Kharkov, Ukraine*) [556] tokareva.irina.1@mail.ru
24. **Vladymyrskyi I.A., Verbitska T.I., Pavlova O.P., Sidorenko S.I., Katona G.L., Beke. D.L., Makogon I.M.** Effect of the Ag Intermediate Layer on the Structure and Magnetic Properties of Annealed FePt/Ag/FePt Thin Films (*National Technical University of Ukraine "KPI", Kyiv, Ukraine; University of Debrecen, Debrecen, Hungary*) [174] vladymyrskyi@kpm.kpi.ua
25. **Zubko E.I.** Technological Features of the Formation of Electronic Instrument Composition PcCu / por-Si / n-Si and PcAl / por-Si / n-Si (*Zaporozhye State Engineering Academy, Zaporozhye, Ukraine*) [414] evgeniya-zubko@mail.ru

Session 2
Nanotechnologies and nanomaterials, quantum-size structures
May, 21-24, 2013

1. **Bilokon S.A.** The Destruction of the Ceramic Probe of an Atomic-Force Microscope in the Study of Dielectric Materials (*Cherkassy State Technological University, Cherkassy, Ukraine*) [148] marsaua001@gmail.com
2. **Boichuk V.I., Bilyns'kyi I.V., Shevchuk I.S., Hols'kyi V.B.** Absorption and Photoluminescence Intensity of Semiconductor Quantum Dots (*Department of Theoretical Physics Drohobych Ivan Franko State Pedagogical University Drohobych, Ukraine*) [472] inna.shevchuk@ukr.net
3. **Boichuk V.I., Bilynskyi I.V., Sokolnyk O.A., Shakleina I.O.** Interband Absorption Coefficient in Quantum Dots of Different Shapes (*Ivan Franko Drohobych State Pedagogical University, Drohobych, Ukraine*) [272] sokolnik@gmail.com
4. **Bolshakova I., Kost Ya., Makido O., Stetsko R., Shurygin F.** Aspects of Growing III-V Compounds and Their Solid Solutions by «Ostwald Ripening» of Nanowires (*Lviv Polytechnic National University, Lviv, Ukraine*) [70] inessa@mail.lviv.ua
5. **Bratus O., Evtukh A., Voitovych M., Lisovskii I.** Properties of the Silicon Enriched SiO_xN_y Films (*V. Lashkaryov Institute of Semiconductor Physics, Kiev, Ukraine*) [65] 3628793@mail.ru
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POSTER REPORTS

Session 1

Thin films technology (metals, semiconductors, dielectrics, conductive polymers) and their research methods

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Session 5
Crystal's growth and their physical properties
May, 21, 2013

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ТА НАНОСИСТЕМ**

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**PHYSICS AND TECHNOLOGY OF THIN FILMS
AND NANOSYSTEMS**

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