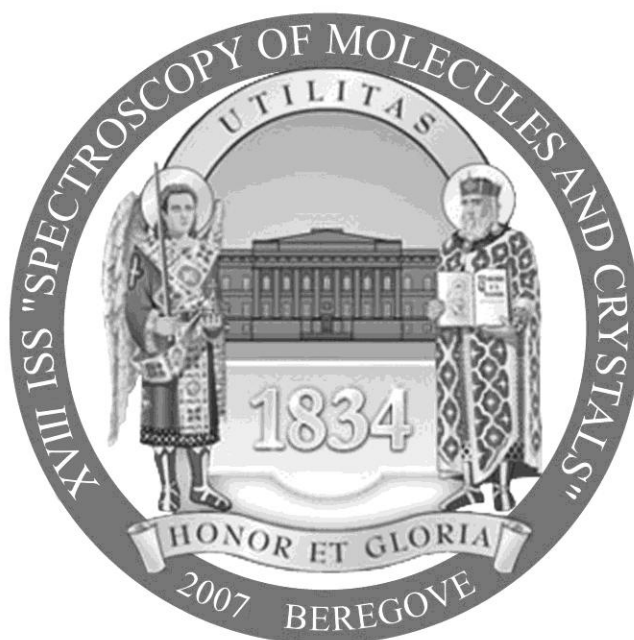


XVIII International School-Seminar
"Spectroscopy of molecules and crystals"

PROGRAMME



XVIII ISSMC is organized by
National Taras Shevchenko University of Kyiv
Institute of Physics of NAS of Ukraine
Ministry of Ukraine on Education and Science
National Academy of Sciences of Ukraine
Ukrainian Society of Physics
Minor Academy of Science of Ukraine

20.09 - 27.09.2007
Beregove, Crimea, Ukraine

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XVIII International School-Seminar
”Spectroscopy of Molecules and Crystals”

PROGRAMME

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Minor Academy of Science of Ukraine

20.09 - 28.09.2007
Beregove, Crimea, Ukraine

Topics of the School-Seminar

1 THEORY

2 MOLECULES

3 CRYSTALS

4 LIQUID CRYSTALS

5 NANOBJECTS

6 SURFACE

7 BIOMOLECULES AND POLYMERS

8 METHODS AND APPLICATIONS

9 COMPUTER SIMULATION

Thursday, September, 20

17:00 – 18:00

Opening ceremony

Friday, September, 21

Chairman *Prof. V.M.Yashchuk*

Lectures

- 9:00 – 9:40 *Mikhail Strzhemechny* Luminescence of crystalline and vitreous ortho-bromobenzophenone
- 9:40 – 10:20 *N.Nizomov, Z.F.Ismailov, E.N.Kurtaliev, Sh.N.Nizamov, S.A.Osmanov, Sh.I.Rahimov, G.Khodjaev, V.N.Yashchuk* Study of dependency between structure and affinity of styryl dyes to protein
- 10:20 – 11:00 *Marie-Pierre Gaigeot, R.Vuilleumier* Infrared Spectroscopy With Ab Initio Molecular Dynamics Simulations. Applications To Peptide Building Blocks In The Gas Phase And In The Liquid Phase
- 11:00 – 11:30 Coffee break

Oral reports Chairman *Prof. V.I. Mikhailenko.*

2. Molecules

- 11:30 – 11:50 *Elmar Petrov* Photoconductivity Of The Organic Molecules Associated With HOMO-LUMO Transitions
- 11:50 – 12:10 *Natalya Bryantseva, Irina Sokolova, Vladimir Khilya, Yana Garazd, Nikita Selivanov, Antonina Tsyrengapova* Spectral Properties Of New Coumarin Derivatives
- 12:10 – 12:30 *Stepan Stepanian* IR Spectroscopy Of Flexible Molecules Isolated In Solid Inert Gases
- 12:30 – 12:50 *A.V. Sorokin, I.K. Katrunov, G.Ya. Guralchuk, R.S. Grynyov, S.L. Yefimova, Yu.V. Malyukin* Control Of Cyanine Dyes Aggregation By A Cationic Surfactant

Oral reports Chairman *Prof. S. F. Bureyko*

2. Molecules

- 16:00 – 16:20 *Yablochkova K.S., Okhrimenko B.A* Inverton Gas In Water?
- 16:20 – 16:40 *V.N.Zozulya, O.A.Ryazanova, I.M.Voloshin, A. Yu.Glamazda, V.A.Karachevtsev* Spectroscopic Studies On Interactions Of Cationic Porphyrins With Polynucleotides
- 16:40 – 17:00 *Mikhailenko V.I., Popovskii A.Yu., Gorjuk A.A., Kuznetsova A.A.* Effects Of Influence Of Different Types Of Intermolecular Interactions On Properties Of Thin Wall-Adjacent Liquid Layers
- 17:00 – 17:20 *Mikola V. Koval, Elmar G. Petrov, Victor I. Teslenko* Light-Induced Switching On The Current Mediated By The Filled Molecular Levels

- 17:20 – 17:40 Kornienko N., Grygomk V., Kutovyi S., Veblya T., Korniyenko A., Krut O
Resonance Interrelation Between Vibration And Electronic States Of Water And SiO₂
- 17:40 – 18:00 M.Korniyenko Spectral Proofs Of The Phenomenon Of Concentration Of Energy

19:00 – 21:00 Poster sessions Chairman Prof. N.N. Nizamov

Saturday, September, 22

Chairman *Academician of Academy of Natural Science of Russia*
Prof. V.S.Gorelik

Lectures

- 9:00 – 9:40 M.Ya.Valakh Optics And Atomic Force Microscopy Of Self-Organized Semiconducting Nanostructures With Quantum Dots And Quantum Wires
- 9:40 – 10:20 V.M.Yashchuk, V.Yu.Kudrya, I.Ya.Dubey, R.D.Fedorovichz, H.Suga, I.O.Savchenko, G.P.Golovach Functional Nanostructures With Predicted Unidirect Excitons Conductivity For Nanoelectronics
- 10:20 – 11:00 Joze Grdadolnik Preferential Conformations Of Blocked Amino Acids In Water
- 11:00 – 11:30 Coffee break

Oral reports Chairman Prof. L. M. Babkov

1. Theory

- 11:30 – 12:10 V.M.Kaslin New fundamental relations for spectroscopy of diatomic molecules
- Dana - Ortansa Dorohoi, Stela Gosav, Leona Dumitracu and Irina Dumitracu*
- Normal Vibration Coordinates In Infrared Spectroscopy.
 - Molecular Symmetry In Establishing Of The Permitted Transitions In IR And Raman Spectra
- 12:10 – 12:50

Oral reports Chairman Prof. I.N. Dmitruk

8. Methods and applications

- 16:00 – 16:20 Anatoliy M. Negriyko, Igor V. Matsnev, Elena G. Udovytska, Mykola K. Danylov, Janna V. Potemkina, Leonid P. Yatsenko Femtosecond Laser Based System Of Length Unit Transfer And Its Application In Precise Spectroscopy
- 16:20 – 16:40 Dana-Ortansa Dorohoi, Feride Severcan Brittle Order Of Liquid Crystals Induces Special Optical Properties And Applications
- Georgii Felinskyi, Pavel Korotkov
- 16:40 – 17:00 Development Of Formation Mechanisms Of The Lowest Orders Optical Nonlinearities From The Raman Spectra Of The Condensed Media

- 17:00 – 17:20 Vasil P. Yashchuk, O.A.Prigodiuk, Yu.D.Filatov Luminescence control of the abrasive particle distribution in the abrasive tools
- 17:20 – 17:40 Vasil P. Yashchuk, E.O. Tikhonov, O.A.Prigodiuk & al.
Line Structure Of Dye Lasing In Multiply Scattering Medium
- 17:40 – 18:00 Olga Prygodiuk, Vasil P. Yashchuk, E.O. Tikhonov Random Laser As The Amplifying System With Stochastically Distributed Feedback

19:00 – 21:00 Poster sessions Chairman Corresponding Member of National Academy of Sciences of Ukraine Prof. M. Valakh

Sunday, September, 23

Chairman *Corresponding Member of Academy of Pedagogical Sciences of Ukraine*

Prof. O. V. Chaliy

Lectures

- 9:00 – 9:40 L.Yatsenko
Recent Progress In Laser Based Rapid-Adiabatic-Passage Techniques
- 9:40 – 10:20 Moiseyenko V.N., Chayka K.S., Guziy O.O., Zubov M.V., Shvachich V.G.
Luminescence of 2,5-bis(2-benzoxazolyl)hydroquinone Molecules in a Synthetic Opal Photonic Crystal
- 10:20 – 11:00 Vytautas Balevicius, Kestutis Aidas, Zofia Gdaniec and Hartmut Fuess
 ^1H , ^{13}C NMR And DFT Study Of Phase Separation And Critical Behavior Of Binary Water/2,6-Lutidine Solution
- 11:00 – 11:30 Coffee break

Oral reports Chairman Prof. V.N. Moiseyenko

4. Liquid crystals

- 11:30 – 11:50 N.A.Kasian, L.N.Lisetski, V.D.Panikarskaya, L.N.Zavora
Selective Reflection And Optical Transmittance In Liquid Crystal Systems With Non-Mesogenic Dopants Of Colloid-Like Behavior
- 11:50 – 12:10 N.A.Kasian, L.A.Zavora, V.D.Panikarskaya, L.N.Lisetski Selective Reflection In Cholesteric Systems Doped With Anthraquinone Derivatives
- 12:10 – 12:30 Yu. A. Garbovskiy (from poster 9) New Composites Based On Metal-Alkanoate Ionic Liquid Crystals: Nonlinear – Optical And Thermophysical Properties

Oral reports Chairmans Prof. N. Dmitruk, Prof. G. Telbiz

6. Surface

- 16:00 – 16:20 N.L. Dmitruk, A.V. Korovin Peculiarities Of Surface Polaritons

- Spectroscopy For Very Lossy Medium
- 16:20 – 16:40 *G. Telbiz, V. Goncharyk, A. Lytvyn, P. Manoryk* The Checking Synthesis Of Mesoporous Thin Films Prepared By Self-Assembly Processes
- 16:40 – 17:00 *Volodymyr I. Chegel, A.M. Lopatynskiy, O.G. Lopatynska, L.V. Poperenko* Electrochemical Surface Plasmon Resonance-Optical Peculiarities Of Interface Gold-Electrolyte At Biochemical Measurements
- 17:00 – 17:20 *N. Smirnova, A.Eremenko* Photoinduced Inter- And Intramolecular Charge-Transfer Processes On Titania - Silica Surfaces

19:00 – 21:00 Poster sessions Chairman Corresponding Member of National Academy of Sciences of Ukraine Prof. M. Valakh

Tuesday, September, 25

Chairman Prof. G.Puchkovskaja

Lectures

- 9:00 – 9:40 *Leonas Valkunas* Exciton Coherence And Relaxation In 2D Spectroscopy
- 9:40 – 10:20 *I. Dmitruk, I. Blonskiy, O. Yeshchenko, M. Davydenko, A.Alexeenko, A. Dmytruk, I. Pavlov, P. Korenyuk* Femtosecond Pump-Probe Spectroscopy Of Metal And Semiconductor Nanoparticles
- 10:20 – 11:00 *Chalyi A.V., Bulavin L.A., Chalyy K.A., Chernenko L.N.* Critical Light and Neutron Spectroscopy of Confined Liquids: Fundamentals&Biomedical Applications
- 11:00 – 11:30 Coffee break

Oral reports

5. Nanoobjects

Chairman Prof. V.Balevicius

- 11:30 – 12:10 *V.A. Karachevtsev, A.Yu. Glamazda, G.O. Gladchenko, M.V. Karachevtsev* Spectroscopy Of Nanohybrids Formed By Carbon Nanotubes With Biomolecules
- 12:10 – 12:30 *S.Malynych* Coherent Plasmon Mode In 2D Silver Nanoparticle Arrays Self-Assembled On Substrates Of Different Nature
- 12:30 – 12:50 *I.Doroshenko, V.Pogorelov, A.Yevglevskiy, O.Lizengevych, L.Berezovchuk, Yu.Zhovtobryukh* Nanoscale Molecular Clusters And Vibrational Relaxation In Simple Alcohols

Oral reports

6. Surface

Chairman Prof. L.Valkunas

- 16:00 – 16:40 *Dovbeshko G.I., Fesenko O.M., D.Grynko, Yakovkin K.I., Budnyk A.P* Biological Molecules Adsorption On Nanostructured Surface Of Gold And Carbon Nanotubes

- 16:40 – 17:20 *V.N.Kharkyanen* Self-Organization Dynamics As Physical Mechanism For Structural Regulation Of Reactions Of Biological Macromolecules
- 17:20 – 17:40 *V.Odarych* Ellipsometric Investigations Of Features Of HfO₂ Films Forming On Optical Glass
- 17:40 – 18:00 *G.Yu. Rudko, I.Yu. Majdanchuk, I.Z. Indutnyy*, Pressure-Induced Variations In Thermally Stimulated Phase Separation Processes In SiO_x

Wednesday, September, 26

Chairman *Corresponding Member of Academy of Sciences of Ukraine*
Prof. M. Strzhemechny

Lectures

- 9:00 – 9:40 *O.Slobodyanyuk, I.Alexeeva, S.Buth, S.Garasevich, D.Hovorun, L.Palchykovska, M.Yakhnenko*
Raman Study Of Biologically Active Aza-Pyrimidine Nucleosides
- 9:40 – 10:20 *V.S. Gorelik* Physical Properties Of Globular Photonic Crystals, Filled By Dielectrics And Metals
- 10:20 – 11:00 *I.A.Ar'ev, N.I.Lebovka* Interaction Between Aqueous Solvent And Non-Polar Aromatic Solutes In Different Electronic States
- 11:00 – 11:30 Coffee break

Oral reports

3. Crystals

Chairman **Prof. O.Slobodyanyuk**

- 11:30 – 11:50 *S. Nedilko* Comparative Study Of The Chromium Ions Luminescence In NaAlP₂O₇ And NaAl(MoO₄)₂ Crystals
Veleshchuk V., Vlasenko O., Lyashenko O., Chuprina R.
- 11:50 – 12:10 Acoustic Emission and Electroluminescence in InGaN/GaN and GaAsP:N/GaP Light-Emission Diodes at Threshold Current Density
- 12:10 – 12:30 *A. V. Morozov, Y.-J. Shiu and S.-H. Lin* Insight Into Optical Probes Of Cytochrome C Using Zipper Model Of Protein Folding

Oral reports

8. Methods and applications

Chairman **Dr.V.Sablinskas**

- 16:00 – 16:40 *Oleg Zhikol, Anatoliy V. Luzanov*
Ab Initio Computing Molecular Electron Excitation Spectra With Gaussian, Gamess, Nwchem Program Packages
- 16:40 – 17:00 *Mr. Alexander Yevglevskiy*
Computer Simulation of Molecular Clusters In Simple Alcohols
Professor Tukhvatullin F.
- 17:00 – 17:20 Intermolecular Interactions In Chloroform-Tert Butyl Alcohol System. Raman Spectra And Quantum-Chemical Calculations

17:20 – 17:40 *G. Grechnev*
Electronic Structure And Optical Spectra Of TX_2 Compounds

19:00 – 21:00 Poster sessions

Chairman *Prof. N. Lebovka*

Thursday, September, 27

9:00-11:00 Closing ceremony

Poster sessions

Friday, September, 21

19:00 – 21:00

3, 4. Crystals and liquid crystals

- Y.A. Hizhnyi, V.V. Boyko, S.G. Nedilko, A.V. Oliynyk*
- A. V. Snigur, V. M. Rozenbaum*
- Yuri Bogatiryov*
- Yuri Bogatiryov*
- S.S.Minenko, L.N.Lisetski, S.V.Budakovsky, O.V.Tarassenko, N.Z.Galunov*
- Kh. Allaberdiev*
- O.Kravchyna, D.L.Kamenskiy*
- K.V.Kutko, A.I. Kapliencko, E.P. Nikolova*
- Yu. A. Garbovskiy*
- E.F. Venger, A.I. Evtushenko, L.Yu. Melnichuk, O.V. Melnichuk*
- M.P. Dergachov, V.N. Moiseyenko, Ya.V. Burak*
- M.P. Dergachov, V.N. Moiseyenko, Ya.V. Burak*
- Moiseyenko V.N., Chayka K.S., Guziy O.O., Zubov M.V., Shvachich V.G.*
- T. Kuchakova, G. Vesna, V. Makara*
1. Electronic Structure Of Ti-Doped NaAlP_2O_7 Crystals
 2. Temperature Dependence Of Davydov Splitting In IR-Spectra Of Orientationally Structured Adsorbates
 3. Far IR Reflection Spectra Of Mixed $\text{Pb}_3(\text{P}_{1-x}\text{V}_x\text{O}_4)_2$ Crystals
 4. Optical Constants Of BiVO_4 Crystal In $400\text{-}1000\text{ cm}^{-1}$ Region
 5. Optical Transmission And Scintillation Light Yield Of Pressure-Compacted P-Terphenyl And Stilbene Polycrystals
 6. Application Of FTIR For Investigation Of Graphite Materials
 7. Temperature And Angular Dependence Of EPR Spectra Of $(\text{CuSO}_4)_{(en)}\cdot 2\text{H}_2\text{O}$ And $(\text{CuSO}_4)_{(en)}\cdot 2\text{D}_2\text{O}$
 8. The Temperature Dependences Of Anisotropy In Co/Cu (111) Superlattices.
 9. New Composites Based On Metal-Alkanoate Ionic Liquid Crystals: Nonlinear-Optical And Thermophysical Properties
 10. Investigation Of Surface Excitations In Optically-Anisotropic ZnO And 6H-SiC Single Crystals In The Presence Of Magnetic Field Using IR Spectroscopy Techniques
 11. Analysis Of The Second Order Raman Spectra In $\text{Li}_2\text{B}_4\text{O}_7$ Crystals
 12. The Raman Scattering In The Mixed $\text{Pb}_5(\text{SiO}_4)(1-x)(\text{GeO}_4)x(\text{VO}_4)_2$ Crystals
 13. Luminescence Of 2,5-bis(2-benzoxazolyl)hydroquinone Molecules In A Synthetic Opal Photonic Crystal
 14. Effect Of Proton Radiation On The Kinetics Of Accumulation Up The Light Sum In The Ceramic ZnS-Cu

J. Gabrusenoks

Lyubon'ko I A.L., Makarets I M.V.

*G.A. Puchkovska, I.I. Gnatyuk,
T.V. Bezrodna, E.N. Kotelnikova,
N.V. Platonova, S.K. Filatov*

*P.Vitta, J.Mickevičius,
G.Tamulaitis, A.Zukauskas,
N.Starzhinskiy, and V.Ryzhikov*

*Kosevich M.V., Chagovets V.V.,
Boryak O.A., Shelkovsky V.S.,
Orlov V.V., Pokrovsky V.A.*

*J.Mickevičius, P.Vitta,
G.Tamulaitis, A.Zukauskas,
N.Starzhinskiy, V.Ryzhikov
Stanovyy O., Gumenjuk A.,
Davydenko M., Dmitruk I.,
Kutovyi S., Piven N., Shcherbak
L.*

*Yu.N. Bobrenko, V.N.
Komashchenko, N.V. Yaroshenko,
T.V. Semikina,
G.I. Sheremetova, B.Atdaev*

*V.A. Rozantsev, V.I. Zhuravleva,
E.A. Ershov-Pavlov*

*T. N. Nikolaenko, Yu. A. Hizhnyi,
S.G. Nedilko*

Khakimov Roman

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F.H., Jumabaev A.*

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N.Yu. Masalitina*

*N.Yu. Masalitina, O.N. Bliznjuk,
A.N. Ogurtsov*

*Khisina N.R., Rusakov V.S.,
Eremin N.N., Dudnikova V.B.*

*Y. Hizhnyi, R. Boyko, V. Chorniy,
P. Nagorniy, S. Nedilko, T.
Nikolaenko*

15. Symmetry Properties Of Lattice Dynamics Of W-O Network

16. Dependence Of Inelastic Energy Loss Of Ions On The Elastic Angle Scattering.

17. Opportunities Of IR Spectroscopy And High Temperature X-Ray Powder Diffraction For Investigations Of Rotator Crystal Phase States (On The Examples Of N-Paraffins)

18. Led-Induced Luminescence Lifetime Measurements In Frequency Domain For Characterization Of ZnSe

19. Study Of Structure Of Organic Crystalline Samples Under Desorption Mass Spectroscopy Conditions

20. Luminescence Decay Kinetics In ZnSe Studied By Frequency Domain Lifetime Measurements

21. Thermoluminescence Study Of Bulk-, Micro- And Nanocrystals Of CdS And CdSe

22. New Structures Of Thin Film Solar Converters Based On Heterojunction

23. Distribution Analysis Of Doping Elements In Crystals By LIBS

24. Excited States Of The Luminescence Centres In AWO_4 (A = Zn, Cd) Crystals

25. Phase Transformation Influence On Optical Properties And Electronic Structure Of Cobalt

26. Influence Of Optical Characteristics And Thickness Of Active Layer On Lasing Spectra Of Dye-Doped Cholesteric Liquid Crystals

27. Dephasing of Vibrations and ν_1 Band Broadening in Raman Spectra of Gaseous Methane and Its Gas Mixture with Ar and Kr

28. Little Angle Raman Scattering In Crystals

29. VUV Spectroscopy Of Inelastic Radiation-Induced Processes In Rare-Gas Solids

30. Kinetics Of Point Defect Accumulation Induced By Exciton Self-Trapping In Atomic Cryocrystals

31. Spectroscopic Study Of Me^{1+} And Me^{3+} Trace Elements Incorporation Into $(Mg,Fe)_2SiO_4$ Olivine

32. Spectroscopic Properties Of Self-Activated Molybdate Crystals

*Oliana Fedosenko, Leonid V.
Poperenko, Eugene Loza*

*Mihaela Iuliana Avadanei, Virgil
Barboiu, George Ervant Grigoriu
and Dana Dorohoi*

*N.Lebovka ,Y.Boiko ,T.Dadakova
L.Lysetskiy ,O.Melezhyk ,
G.Puchkovska ,T.Gavrilko
J.Baran , M.Drozd*

33. Application Of Kramers-Kronig Method For Analysis Fe-Based Alloys

34. Photochemical reactions of excited benzophenone in hydrocarbon polymers. Studies on model compounds

35. Percolation in carbon nanotubes/nematic liquid crystal composites

Saturday, September, 22

19:00 – 21:00

2. Molecules

*Evstigneev V.P., Rozvadovska
A.O., Davies D.B., Evstigneev
M.P.*

*Eremina N.S., Samsonova L.G.,
Kopylova T.N.*

*A.V. Snegursky, E.Yu.Remeta,
A.N.Zavilopulo, O.B.Shpennik*

*Lev M. Babkov, J. Baran, N.A.
Davydova, K.E. Uspenskiy*

A.V.Kraiskii, N.N.Melnik

*G.Ya. Guralchuk, I.K. Katrunov,
R.S. Grynyov, A.V. Sorokin,
S.L. Yefimova, Yu.V. Malyukin
R.S. Grynyov, I.K. Katrunov,
G.Ya. Guralchuk, A.V. Sorokin,
S.L. Yefimova, Yu.V. Malyukin
,S.M. Yarmoluk*

*I.K. Katrunov, G.Ya. Guralchuk,
R.S. Grynyov, A.V. Sorokin,
S.L. Yefimova, Yu.V. Malyukin*

V.I. Tsaryuk

*Grygorjeva Olesja, Dacenko
Oleksandr, Kolabylina Tetjana,
Vakulenko Oleg*

1. Analysis Of Multi-Component Equilibria Of Aromatic Molecules

2. Spectral-Luminescence Properties Of N,N'-BiS(3-methylphenyl)-N,N'- diphenyl-benzidine And 8-hydroxyquinoline Aluminum In Liquids And In Thin Polymer Films

3. Mechanisms Of Sf₆ Molecule Fragmentation Under Electron Impact

4. The Vibrational Spectra And The Structures Of Biphenylmethanols

5. Concentration Dependences For Parameters Of Low-Frequency Raman Spectra In Weak Aqueous Solutions Of Hydrogen Peroxid

6. Strong Enhancement Of Cyanine Dye L-21 Aggregation By A Surfactant

7. Specificity Of Cyanine Dye L-21 Self-Aggregation On Nucleic Acids Templates

8. Exciton Self-Trapping In Amphi-Pic J-Aggregates

9. The Structure Of Ligands And The Effects Of Luminescence Excitation Of Europium And Terbium Compounds

10. Luminescent Control Of Functional State Of Water Plants Exposed To Microwave Irradiation

- M. Dekhtyar, V. Rozenbaum*
- T.V. Zashivailo, V.I. Kushnirenko*
- Vladimir N. Bocharov,
A.P. Burtsev, T.D. Kolomiitsova,
D.N. Shchepkin*
- N.S. Pivnenko, L.A. Kutulya,
V.V. Abakumov, A.V. Turov,
N.I. Shkolnikova, N.B. Novikova*
- V. P. Bulychev, E. I. Gromova,
and
K. G. Tokhadze*
- H. A. Grebneva*
- Eugen Setov, Alexander Vdovin*
- S.L. Yefimova, G.Ya. Guralchuk,
A.V. Sorokin, R.S. Grynyov,
Yu.V. Malyukin*
- S. Garasevych, I. Alexeeva,
D. Hovorun, L. Palchykovska, O.
Slohodyanyuk, M. Yakhnenko*
- Irina Vasil'eva, Voitova N.A.,
Chizhikova Z.A.*
- O. Gutov, E. Rusanov,
S. Garasevich, O. Slobodyanyuk*
- Justinas Ceponkus, Marija
Moskalenko, Valdas Sablinskas*
- N.I. Selivanov, L.G. Samsonova*
- Gotsulsky V. Ya., Chechko V. Ye.,
Popov A. Yu.*
11. A Topology-Based Primary Search For Quasi-Linear Conjugated Organics With Large Ground-To-Excited State Change In Dipole Moment
12. Photochemical Transformations In Solutions Of Nonorganic Compounds With Silver Complexes
13. The Influence Of The Thermodynamic Conditions On The Short Range Order Parameters Of Liquid CF₄, CF₃H, CF₃Cl, CF₃Br.
14. Spectra NMR And Molecular Structures Some 7-(4-Aryliden)Hexahydroindazoles As Chiral Dopants To Liquid Crystalline Systems
15. Investigation Of The ν_1 Band Shape Of The (CH₃)₂O...HF In The Gas Phase. Spectroscopic And Theoretical Results.
16. Pyrimidine Dimers With Bases In Rare Tautomeric Forms Are Main Cause Of Ultraviolet Mutagenesis
17. Infrared Spectrum Of 2,5-di-(2-benzoxazolyl)phenol
18. Spectroscopic Study Of Dyesurfactant Interaction: Control Of Nonradiative Energy Transfer Between Carbocyanine Dyes In Nano-Volume Of Surfactant Micelles
19. Raman Spectra Of 6-Aza-Cytidine And Related Compounds In Solutions
20. Analysis Of Intramolecular Interaction From Conjugated Luminescence Spectra Of Dsb And Fdsb
21. Structure And Spectral Properties Of New Viologens And Viologen-Analogues
22. Application Of Matrix Isolation FTIR Spectroscopy For Characterization Of 1-Alkene Ozonides
23. The Researches Of Photoprocesses In Some Coumarine Derivatives
24. Anomalous Scattering Of Light In Solutions With Gradient Concentration

7. Biomolecules and polymers

- Olenchuk M.V.*
- E. B. Kruglova, N. A. Gladkovskaya,
L.H. Palchykovskaya, I.V. Alexeeva*
1. Study Of Recombination Processes Of Light-Induced Charge Separation In Bacterial Reaction Centers Under The Different Photoactivation Conditions
2. Binding Affinity Of The 6-Azacytidine To DNA Molecules

- A. Sporzynski, A. Zubrowska,
P. Rogowska, M. Cyranski, G.
Schroeder*
- I.M.Voloshin, V.N.Zozulya B.*
- M.I.Sukhoviya, M.I.Shafranyosh,
M.O.Margitich, I.I.Shafranyosh*
- T.V.Sakhno, I.V.Korotkova,
R.V.Yaremko, I.K. Drobitko*
- Ponezha E.A.*
- Bashmakova N., Kutovyi S.,
Yashchuk V., Zhurakivskiy R.,
Govorun D.*
- O. Vrublevskaja, V. Urboniee,
G. Trinkunas, A. Gall, B. Robert,
L.Valkunas*
- S. Senchurov, Yu.Zabashta, V.
Prystupa, I. Prokhorov*
- V.Yu.Kudrya, V.M.Yashchuk,
L.A.Zaika, L.D.Yatsenko,
I.I.Volyanskova*
- V.M.Kravchenko, O.M.Buriy,
V.M.Yashchuk, I.M.Kovalchuk,
K.M.Kushnir*
- O.A. Ryazanova, I.M. Voloshin,
I.Ya. Dubey, and V.N. Zozulya*
- Beshnova D.A., Rogova O.V.,
Evstigneev M.P.*
- Gladchenko G., Karachevtsev M.,
Leontiev V., Valeev V.,
Karachevtsev V.*
- V.A.Sorokin, E.L.Usenko,
V.A.Valeev*
- V. Kyrychenko, G. Smolyakov,
T. Gavrilko, V. Zagniy, L. Vretik,
L. Paskal, O. Yaroshchuk., V.
Syromyatnikov.*
- S.A. Khatipov, Yu.E. Sakhno,
V.G. Klimenko, T.V. Sakhno,
D.I.Seliverstov*
- Selivanov S.I.*
3. Hydrogen Bonds In o-(Polyoxaalkyl)Phenylboronic Acids
4. Laser Fluorescence Polarization Study Of Quinacrine-Nucleic Acid Interaction Mechanism.
5. Electron Impact Excitation And Ionization Functions Of Gas-Phase Nucleic Acid Base Molecules
6. Conformational Calculations On Polysilanes In Solutions
7. Influence Of Low Frequency Electromagnetic Fields On Cellular Charge Transport With An Account Of Stochastic Resonance
8. Experimental And Simulated Raman Spectra Of Some Crystalline DNA, RNA Bases
9. Dinamic And Static Exciton Scattering In Photosynthetic Light - Harvesting Pigment Protein Complexes
10. The Infrared Spectroscopy Of The Chemically Treated Human Hair
11. The Spectral Properties Of The Native Pure Polynucleotides And The Polynucleotides Treated By PT
12. Autofluorescence Of Biomolecules For Cancer Diagnostics
13. Absorption And Fluorescence Studies On Cooperative Binding Of Cationic Pheophorbide-A Derivative To Polyphosphate And Model Polynucleotides
14. A Microscopic Cooperativity Model To Study Ligand-DNA Complexation
15. Spectroscopic Study Of Nanohybrids Formed By Single-Walled Carbon Nanotube And DNA
16. Dependence Of Conformational Equilibrium Of Single-, Double- And Three-Stranded Polynucleotides Containing Adenine And Uracil On Ni²⁺ Ion Concentration And Temperature At High Ionic Strength Of Solution
17. Spectroscopical Investigations Of Photochemistry In Arylmethacrylic Polymers
18. A Nature Of The Centers Of Colouring In γ -Irradiated PTFE
19. NMR Investigation Of Conformational Mobility In Rings B, C And D Of Steroid Estrogen Analogues

*E.Andreev, Y.Barabash,
D.Grinko, M.Zabolotny,
N.Sokolov*

20. The Model Of Photoinduced Conformational Change In RC.

Sunday, September, 23

19:00 – 21:00

2. Molecules

*Justinas Ceponkus, Daiva
Lesciute, Valdas Sablinskas*

1. Matrix Isolation Ftir Study Of Molecular Complexes Water-Carboxylic Acid

*Valdemaras Aleksa, Vytenis
Barkauskas, Vytautas Balevicius*

2. Raman Study Of Vibrational And Rotational Relaxation In Ionic Liquid: 1-decyl-3-methyl-imidazolium bromide

*N.Nizomov, A.U.Kholov,
A.A.Ishchenko, V.V.Ishchenko,
V.P.Khilya*

3. Spectral-Fluorescent Properties Of 7 - oxy - And 7 – methoxy- Coumarine Dyes In Solutions

*Sh.Nizamov, E.N. Kurtaliev,
M.Barakaeva*

4. Spectroscopic Study Of Heterogeneous Associates Formation In Rhodamines B And S Solution With Gossypol.

*Ruslan A. Malitskiy,
Anatoliy M. Negriyko*

5. Experimental Observing Of Enhanced Nonlinear Optical Effects In Molecular Iodine

*M.A.Varfolomeev,
B.N.Solomonov*

6. Model Of Analysis Of Solvent Effects On The Characteristics Of Ir-Spectrums, Founded On Thermochemical Solvent Parameter.

*L.M. Babkov, J. Baran, N. A.
Davydova, M. Drozd, O.S.
Pyshkin, K.E. Uspenskiy*

7. Investigation Of Structure-Property Relationships Of Benzophenone Derivatives

*Selivanov S.I., Troshin K.K.,
Solov'ev A.Yu.*

8. Combination Of Spectral Calculation And 2D NMR Methods For Correct Estimamtion Of Scalar Constant Values ${}^{2-6}J_{\text{H-H}}$ From Crowded Proton Spectra Of Steroids

*N. M. Kachalova, O. M. Litvinov,
V. M. Khodakovskiy, R. A.
Malitskiy,*

9. Spectroscopy Of Coherent Population Trapping Resonances Excited By An Optical Frequency Comb

*I. V. Matsnev, A. M. Negriyko,
Z. V. Potemkina, V. I.
Romanenko,*

O. G. Udovitska, L. P. Yatsenko

*Pogorelov V., Lizengevych O.,
Yevglevskiy A.*

10. Band Structure Of C-H Vibrations In Hydrocarbons: Isooctane

*Chumaevskiy N.A., Rodnikova
M.N., Vinogradova S.A.,
Sirotkin D.A., Kucherepa N.S.
Stela Gosav, Simona Bota-
Condurache, Irina Dumitrascu,
Leona Dumitrascu and Dana-
Ortansa Dorohoi*

11. About The Some Peculiarities Of The Liquid-Phase State Of Water By Raman Spectral Data

12. Point Groups in Molecular Symmetry

6. Surface

Oksana Budnyk

O. E. Vovchenko, V. M. Rozenbaum

Yu. Gnatyuk, N. Vityuk, M. Andrulavicius, N. Smirnova, A. Eremenko, S. Tamulevicius

E. Manuilov, Yu. Gnatyuk, V. Vorobetz, N. Smirnova, G. Kolbasov, A. Eremenko

O. Lomakina, I. Shaykevich

Berezovska N., Kutovyi S., Dmitruk I., Graf L., Dmitruk N., Simkiene I, Sabataityte J.

1. FTIR spectroscopy analysis of C-H vibrational modes on a hydrogen-terminated diamond surface
2. The Dielectric Loss Tangent Of A Dipole Rotator In The Hindered Rotation Potential
3. Electronic Structure Of $\text{TiO}_2/\text{ZrO}_2/\text{SiO}_2$ Films
4. Photoelectrochemical Characterization Of Silver Modified Mesoporous TiO_2 Films
5. Investigation Of Transition Layer At Thin Mo Film Quartz Substrate Interface At Excitation Of Surface Polaritons
6. Morphology, Raman Scattering And Photoluminescence Of Porous InP Layers

5. Nanoobjects

V. Pashynska, V.A. Karachevtsev, A.Yu. Glamazda, A.V. Peschanski, A.M. Plokhomichenko, V.I. Fomin

G. Puchkovska, T. Bezrodna, I. Chashechnikova, Eu. Shaydyuk, A. Tolochko, V.Nesprava, Yu. Bojko,

N. Lebovka, J.Baran, M. Drozd Oleg Yeshchenko, Igor Dmitruk, Alexandr Alexeenko, Andriy Dmytruk

A. Eremenko, G. Yashan, G. Krylova, N. Smirnova

Alexander D. Alekhin, Leonid A. Bulavin, Eugene G. Rudnikov

Andrej Dementjev, Vidmantas Gulbinas, Leonas Valkunas, H. Raaben

Davydenko M.O., Dmitruk I.M.

Pundyk I.P., Dmitruk I.M.

1. Temperature Dependent Spectroscopy Of Nonpolymerized And Photopolymerized Fullerene Films
2. Structure And Optical Properties Of Heterogeneous Nanosystems CTAB-MMT-LC.
3. Manifestation Of Surface Plasmon Resonance In Optical Spectra Of Ni Nanoparticles In Silica Matrices
4. Optical Spectra And Morfology Of Photochemically Produced Au-Ag Bimetallic Nanosized Clusters In Water Solutions And Porous Silica Films
5. Properties Of Small Fluctuation Nano-Systems Near The Critical Point
6. Induced Absorption As Competitive Process In Bleaching Feature Obtained In High Excited PbS Nanocrystals In Silicate Glass
7. Change Of Photoluminescence Spectra Of CdSe Nanoparticles Under Laser Photoetching
8. Coherence Of Excitons In CdSe Nanocrystals Under Resonance Excitation

G. Telbiz, V. Grebennykov, V. Goncharyk, V.Ilyin, P. Manoryk, L.V. Pizarzevsky

Erkin N. Shermatov

A.A. Masalov, O.G. Vyagin, I.I. Ganina, Yu.N. Velikbov, Yu.V. Malyukin

N. N. Melnik, T. N. Zavaritskaya and V. A. Karavanski

Serhiy Malynych, Iryna Moroz

A.M.Yaremko, V.M.Dzbagan, O.S.Lytvyn, M.Ya.Valakh, V.O.Yukbymchuk

Biryukov A.A.

9. Nanocasting Growth Of Zinc Oxide Nanorods And Nanotubes In Mesoporous Host

10. Surface Effects And Mechanism Of Formation Of Properties Of Nano-Materials

11. The Control Of Energy Storage Effect In Nanostructured $\text{Lu}_2\text{SiO}_5:\text{Ce}^{3+}$ By Codoping With Rare-Earth Ions

12. Optical Properties Of The Graphite Nanoparticles In Irradiated Diamonds

13. Microcontact Printing Of Poly(Vinylpyridine) For Nanoparticle Assembling

14. Raman Study Of Self-Assembled Ge/Si Nanoislands

15. Dimension-Controlled Synthesis Of Cds Nanoparticles In Mma Medium And Study Of Optical Properties Of The Obtained Nanocomposites

Wednesday, September, 26

19:00 – 21:00

9. Computer simulation

Leona Dumitracu, Irina Dumitracu and Dana-Ortansa Dorohoi

Vladimir V. Ivanov, V.N. Karazin

S.F. Bureiko, S.Yu. Kucherov, A.V. Shurukhina

Vladimir K. Voronov, I.A. Ushakov, M.I. Borovik, L.V. Baikalo

Chagovets V.V., Kosevich M.V., Boryak O.A., Stepanyan S.G.

V.M. Rizak, O.I. Chobal, I.M. Rizak

1. Computer Simulation Of The Dispersion Curves Of Main Refractive Indices For Polymers Of Esteric Alcoxy Benzoic Acids (PEABA) In Tetrachloromethane (TCM)

2. Hyperpolarizabilities Of Polienes In The Coupled Cluster Theory

3. Spectroscopic Studies And Quantum Chemical Calculations Of Molecular Structure Of N,N-Diphenylformamidine H-Bonded Complexes.

4. Conformational Analysis Of Thio- And Phosphorilazoles By Heteronuclear NMR Spectroscopy And *ab initio* Calculation.

5. Mass Spectroscopic And Computer Simulations Of Redox Properties Of Imidazophenazine Dye Derivatives

6. Ab Initio Calculation Of Electronic And Vibrational Spectra Of Molecular Clusters Of $\text{Sn}(\text{Pb})_2\text{P}_2\text{S}(\text{Se})_6$ Crystals

8. Methods and applications

- A.V. Kraiskii*
- Garasevich S., Myagchenko Yu., Ryashko T., Slobodyanyuk O.*
- Vasil P.Yashchuk, M.V.Zhuravsky*
- Irina Dumitrascu, Leona Dumitrascu and Dana-Ortansa Dorohoi*
- Laura Marinela Ailioaie, C. Ailioaie*
- Laura Marinela Ailioaie, C. Ailioaie*
- Kolesnik A.S., Kopyshinsky A.V., Zelensky S.E.*
- Oleg V. Boyarkin*
- V. Postnikov, A.Kraiskii, T.Sultanov, V.Tikhonov*
- Astrakhantzev K.S., Melnichenko L.Yu., Prorok V.V., Shaykevich I.A.*
- R. Arshan, G. Klimusheva, Yu. A. Garbovskiy, S. Bugaychuk, G. Telbiz*
- Rybak V.V., Sklyarenko S.K., Strokach O.O.*
- Alekhin A.D., Salivon N.G., Shymanskaya E.T.*
- Elena Melnikova, Alexandr Kazak*
- R. Karpicz, E. Songaila, S. Jursenas, I. Muzikante*
- Grygoruk V.I., Ponezha G.V., Ponezha S.G.*
- Alexei Tolstik, Igor Agishev*
1. About A Possibility Of Measurement Of Amplitude-Phase Structure Femtosecond Light Pulses By Spectral Method
 2. High Speed Contactless Method For Detection Oligosaccharides In The Mixtures
 3. Modeling Of The Random Laser Radiation Spectrum Evolution
 4. Experiments For Determination Of The Light Polarization State: Applications
 5. Interventions For Healthy Aging
 6. Physics Applications In The Early Assessment Of Pediatric Rheumatic Diseases
 7. Simple Optical Method For Estimation Of Temperature Using The Emission Decay Curve
 8. State Resolved Photofragmentation Spectroscopy: From Water Towards Proteins
 9. Hydrogels Holographic Sensors Sensitive To Acidity Environment.
 10. Influence Of Oxide At Fe Film Surface On The Ellipsometric Parameters Of Scattering Light At Excitation Of Surface Polaritons
 11. Self-Action Effects In New Composites Probed By Z-Scan Technique
 12. Influence Of The Duration And The Power Of Laser Radiation On The Pyroelectric Characteristics Of Detectors
 13. Field Dependencies Of Critical Polarized Opalescence
 14. Controlled Diffraction Elements Based On Doped Liquid Crystal And Photopolymeric Composites
 15. Temperature Sensor Based On The Polar Organic Material
 16. Temperature Effects Of Microwave Reflection Coefficient From Water And Human Body
 17. Determination Of The Nonlinear Optical Properties Of Pure And Colored Organic Liquids By Methods Of Multiwave Mixing

- A. I. Ivanisik, A. V. Konopatskiy* 18. The Opportunity Of Formation Of Ultrashort Optical Pulses In Consequence Of Transition Effect On Border Of The Self-Focusing Environment
- Zelensky S.E., Kolesnik A.S., Okhrimenko B.A.* 19. Underwater Laser Ablation As A Method Of Preparation Of Luminescent Thallium Solutions
- Kopyshinsky A.V., Zelensky S.E., Kolesnik A.S.* 20. Vaporization Of Carbon In Aqueous Suspensions Under Pulsed Laser Irradiation
- Garasevich S., Myagchenko Yu., Holoviy O., Slobodyanyuk O.* 21. Detection Singlet Oxygen In Powders And Solutions
- S. Buth, Yu. Shermolovich, S.Garasevich, T.Ryshko, Yu.Myagchenko* 22. 1,2,4-Benzothiazine Derivatives New Optical Active Materials: Synthesis, Structure And Properties
- I. Prysiazhnevych, V. Yukhymenko,*
V. Chernyak, V. Naumov, J. Skalny,
S. Matejczik, M. Verovchuk, S. Sidoruk 23. Optical Emission Spectroscopy Of Plasma-Liquid System Of Atmospheric Pressure
- V.I. Zhuravleva, V.A. Rozantsev, Ershov-Pavlov E.A., A.A. Boiko* 24. An Influence Of Sol-Gel Material Properties On Laser Ablation And Plasma Emission Spectra
- O.P. Budnyk, A.P. Budnyk* 25. SERS and SEIRA: powerful techniques for molecular surface probing
- A.V.Dyakova, V.M.Kravchenko, V.M.Yashchuk* 26. Spectral Properties Of Food Dyes
- T. Kuchakova, G. Vesna, V. Makara* 27. X-Ray Luminescence Ceramics ZnS-Cu From Doze Of Proton Irradiation
- Vahula A., Koryzhenko V., Samoylova I., Kukla A.* 28. Investigation Of Organic Solutions Vapors Influence On Optical Parameters Of Thin Calixarenes Films By Means Of Interference RGB Spectroscopy

Програма Малої Академії

21 вересня, п'ятниця

Лекції

- 9:00 – 9:40 Заслужений діяч науки РФ, академік академії природничих наук РФ, проф. Горелик В.С. ФИАН, Москва.
Фотонні кристали
- 9:40 – 10:20 Ст.н.с. Науменко А.П. КНУ, Київ.
Спектроскопія нанотрубок.

Доповіді членів МАН

- 10:20 – 10:40 *Штахов Євген.* Властивості тонких шарів полярної рідини біля поверхні кристалу
- 10:40 – 11:00 *Жиліна Олександра.* Лазерні волоконно-оптичні лінії зв'язку
- 11:00 – 11:30 Перерва на каву
- 11:30 – 11:50 *Рогуленко Валентина.* Про кристалічні властивості молекул білків
- 11:50 – 12:10 *Гандзюк Тарас.* Фізика сонячних спалахів
Савчук Олександр. Дослідження будови полімерної плівки, одержаної в
- 12:10 – 12:30 низькотемпературній плазмі толуюлу на поверхні гранул аміачної селітри за допомогою інфрачервоної спектроскопії.
- 16:00 – 18:00 *Заседка Л.М.* Вчимося розв'язувати олімпіадні задачі

22 вересня, субота

Лекції

- 9:00 – 9:40 Проф. Дмитрук І.М., Київ.
Нанокластери як особлива структурна форма речовини.
- 9:40 – 10:20 Проф. Ящук В.М., Київ. Фотоніка полімерів.
Фундаментальні та прикладні проблеми.

Доповіді членів МАН

- 10:20 – 10:40 *Оверко В.* Властивості кристалів
- 10:40 – 11:00 *Шахрайчук Андрій.* Спектроскопія комбінаційного розсіювання світла халькогенідних стекол системи $\text{GeS}_2 - \text{Ga}_2\text{S}_3 - \text{HgS}$
- 11:00 – 11:30 Перерва на каву
- 11:30 – 11:50 *Казбан Євгеній.* Магнітооптичний метод контролю магнітних

мікрополів

11:50 – 12:10

Щебетовська Карина. Плями й активні зони на зірці Lq гідри

12:10 – 12:30

Гаєва Анастасія. Вивчення змін оптичних властивостей еластичного тіла в залежності від його розмірів

16:00 – 18:00

Заседка Л.М. Вчимося розв'язувати олімпіадні задачі

23 вересня, неділя

Лекції

9:00 – 9:40

Член-кор. НАНУ Валах М.Я., Київ.

Оптичні властивості нанорозмірних систем.

9:40 – 10:20

Проф. Ящук В.М., Київ.

Оптичні властивості ДНК.

Доповіді членів МАН

10:20 – 10:40

Медведев Едуард. Магнітний сепаратор для розділення частинок з малим магнітним моментом

10:40 – 11:00

Колодежний Максим. Синтез і дослідження будови карбамідо-формальдегідних сполук.

11:00 – 11:30

Перерва на каву

11:30 – 11:50

Долгов Андрій. Розробка системи лазерного юстування дзеркальних телескопів

11:50 – 12:10

Курась Петро. Лазер та підвищення довговічності сільськогосподарського обладнання.

12:10 – 12:30

Вольвач Яна. Дослідження фотохромного ефекту в двошарових плівках AgCl-CuCl

16:00 – 18:00

Заседка Л.М. Вчимося розв'язувати олімпіадні задачі

25 вересня, вівторок

Лекції

9:00 – 9:40

Проф. Слободянюк О.В., Київ.

Що таке хіральна чистота живої природи?

9:40 – 10:20

Проф. Слободянюк О.В., Київ.

Прискорювач чи енерджайзер?

Доповіді членів МАН

- 10:20 – 10:40 *Рябий Юрій.* Про структуру кристалів з атомів хімічних елементів
- 10:40 – 11:00 *Олійник Максим.* Спектральний аналіз молібденової фольги
- 11:00 – 11:30 Перерва на каву
- 11:30 – 11:50 *Поплавський Ігор.* Зміна концентрації F – центрів при відпалі кристалів KCl
- 11:50 – 12:10 *Прохоров Дмитро.* Оптичні властивості кристалів $RbNH_4SO_4$
- 12:10 – 12:30 *Кулик Дмитро.* Оптичні резонатори
- 16:00 – 18:00 **Олімпіада**

26 вересня, середа

Лекції

- 9:00 – 9:40 **Член-кор. АПНУ, проф. Чалий О.В.**
Фізика та медицина.
- 9:40 – 10:20 **Проф. Лебовка М.І.,** Київ.
Перколяційні явища в нанокompозитних системах.
- 10:20 – 11:00 **Проф. Дмитрук М.Л.** Київ
Поверхневі електромагнітні хвилі. Плазмоніка.
- 11:00 – 11:30 Перерва на каву

Доповіді членів МАН

- 11:30 – 11:50 *Мороз Олександр.* Застосування емісійного спектрального аналізу та експрес-методу термо-ерс для визначення вмісту вуглецю в сталях, чавунах і виробах з них.
- 11:50 – 12:10 *Сагань Ярослав.* Дослідження сучасних проблем освітлення та проектування світлодіодних світильник в для спеціального та промислового освітлення
- 12:10 – 12:30 *Акімов Олексій.* Дослідження оптичних властивостей атмосфери і денного астроклімату під час сонячного затемнення.
- 12:30 – 12:50 *Семенихіна Інна.* Розв'язок задач, які можна сформулювати, спостерігаючи оточуюче середовище
- 16:00 – 18:00 **Аналіз результатів олімпіади. Відзначення переможців**

Time-schedule

Thursday, September, 20, 2007

9:00-17:00 Arrival and registration

13:00-14:00 Lunch

17:00-18:00 Opening ceremony

18:00-20:00 Welcome party

| | 21, September | 22, September | 23, September | 24, September |
|-------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 9:00-11:00 | Lectures | | | Excursion day |
| 11:00-11:30 | Coffee break | | | |
| 11:30-12:50 | Oral reports | | | |
| 16:00-18:00 | Oral reports | | | |
| 19:00-21:00 | Poster presentation | | | |
| | | | | |
| | 25, September | 26, September | | 27, September |
| 9:00-11:00 | Lectures | | | Closing ceremony |
| 11:00-11:30 | Coffee break | | | |
| 11:30-12:50 | Oral reports | | | |
| 16:00-18:00 | Oral reports | | | |
| 19:00-21:00 | Conference dinner | Poster presentation | | |
| | | | 9:00 -11:00 | |