IFSOE
2025

11th International Fall School on Organic Electronics

School Program

September 21-25, 2025
Moscow region, Russia
Hotel Sofrino Park
http://www.ifsoe.ru

11th INTERNATIONAL FALL SCHOOL ON ORGANIC ELECTRONICS – 2025 (IFSOE-2025)

Organizers

Division of Chemistry and Material Science of Russian Academy of Sciences

The Ministry of Science and Education of Russia

Enikolopov Institute of Synthetic Polymeric Materials of Russian Academy of Sciences (ISPM RAS)

Lomonosov Moscow State University (MSU)

MESOL LLC

Scientific program

1) ***Fundamentals of organic electronics:*** charge transport, modeling, photophysics, etc.

2) ***Design and synthesis of materials for organic electronics:*** organic conductors and semiconductors, dielectrics, substrates, etc.

3) ***Organic field-effect transistors:*** single crystal, polymer and monolayer OFETs, integrated circuits and related devices.

4) ***Organic light-emitting devices:*** OLEDs and OLETs, white light-emitting devices, TADF devices, organic lasers.

5) ***Organic and hybrid solar cells:*** small molecules and polymer photovoltaics, tandem cells, perovskites-based photovoltaics, etc.

6) ***Organic sensors:*** physical (pressure, temperature, photo, etc.) sensors, chemo- and biosensors.

7) ***Characterization techniques:*** various spectroscopy, microscopy, and x-ray scattering techniques, charge mobility measurements, thermal and surface analysis, HOMO and LUMO evaluation, biomedical applications, etc.

8) ***Technologies of organic electronics:*** printing of organic materials and devices, roll-to-roll techniques, ink formulations, encapsulation, etc.

School-conference Chairs

Prof. Sergey Ponomarenko (Enikolopov Institute of Synthetic Polymeric Materials of RAS, Russia)

Prof. Dmitry Paraschuk (Lomonosov Moscow State University, Russia)

International Advisory Board

Prof. Mikhail Alfimov (Photochemistry Center of RAS, Russia)
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Local Organizing Committee

Alina Khmelnitskaia – *workshop secretary*
Dr. Elena Kleimyuk
Dr. Gagik Ghazaryan
Ekaterina Sorokina
Elizaveta Bobrova
Evgeniy Zaborin
Yaroslava Titova

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School program

The 11th International Fall School on Organic Electronics – 2025 Time Schedule

Moscow, Russia (GMT+3)

<table>
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September, 21</th><th>Monday
September, 22</th><th>Tuesday
September, 23</th><th>Wednesday
September, 24</th><th>Thursday
September, 25</th></tr>
<tr><td>8:00</td><td rowspan="6">13:00
Registration at ISPM RAS

15:00
Departure to Conference site

17:00
Hotel arrival
Registration</td><td colspan="4">Breakfast</td></tr>
<tr><td>9:00</td><td>Sergey Ponomarenko</td><td>Dmitry Paraschuk</td><td>Maria Rosa Antognazza</td><td>Kostas Daoulas</td></tr>
<tr><td>10:00</td><td>Grigory Zyryanov</td><td>Valentina Utochnikova</td><td>Raul David Rodriguez</td><td>Souren Grigorian</td></tr>
<tr><td></td><td>Ratheesh Vijayaraghavan</td><td>Alexander Romanov</td><td>Oral talks 5</td><td>Alessandro Troisi</td></tr>
<tr><td>11:00</td><td colspan="2">Coffee-break</td><td rowspan="2">Oral talks 6</td><td rowspan="2">School Closing</td></tr>
<tr><td>12:00</td><td>Pavel Troshin</td><td>Anna Koehler</td></tr>
<tr><td></td><td>Maxim Kazantzev</td><td>Johannes Gierschner</td><td colspan="2" rowspan="2">Sport activities</td></tr>
<tr><td>13:00</td><td>Oral talks 1</td><td>Oral talks 3</td></tr>
<tr><td>14:00</td><td>19:30
School opening</td><td colspan="4">Lunch</td></tr>
<tr><td></td><td rowspan="3">19:45
Vitaly Podzorov</td><td>Shinto Varghese</td><td>Artem Bakulin</td><td rowspan="5">Excursion/Sport activities</td><td rowspan="6">14:00
Departure to Moscow</td></tr>
<tr><td>15:00</td><td rowspan="2">Oral talks 2</td><td>Oleg Kharlanov</td></tr>
<tr><td></td><td>Oral talks 4</td></tr>
<tr><td>16:00</td><td rowspan="2">Coffee-break +
Poster session 1</td><td rowspan="2">Coffee-break +
Poster session 2</td></tr>
<tr><td>17:00</td><td rowspan="3">20:30
Welcome party</td></tr>
<tr><td>18:00</td><td colspan="2">Dinner</td></tr>
<tr><td>19:00</td><td colspan="2">Sport activities</td><td>Conference dinner</td></tr>
</table>

Sunday, September 21st

13:00 – 15:00	**Registration at ISPM RAS. Departure to conference site**
17:00 – 18:30	**Hotel arrival. Registration**
18:30 – 19:30	**Dinner**
19:30 – 19:45	**School opennig**
19:45 – 20:30	**T-1.** *Vitaly Podzorov.* Elucidating Intrinsic Electronic and Ionic Mobilities in Soft-Lattice Materials (Organic Semiconductors and Metal-Halide Perovskites)
20:30 – 23:00	**Welcome-party**

Monday, September 22nd

8:00 – 9:00	**Breakfast**
	Chair: *Pavel Troshin*
9:00 – 9:45	**T-2.** *Sergey Ponomarenko.* High Mobility Organic Semiconductors for Field-Effect Transistors
9:45 – 10:15	**I-1.** *Grigory Zyryanov.* Functional Polymers: (Mechano)Synthesis and Study of Photophysical and Applied Properties
10:15 – 10:45	**I-2.** *Ratheesh Vijayaraghavan.* Solid-State Aggregates of Ndis for Efficient n-Channel OFETs: Molecular Structure, Assembly and Function
10:45 – 11:00	**Coffee-break**
	Chair: *Grigory Zyryanov*
11:00 – 11:45	**T-3.** *Pavel Troshin.* Organic Batteries: Current Promises and Challenges
11:45 – 12:15	**I-3.** *Maxim Kazantsev.* Aryl-Containing Diazafluoren(On)Es for Organic Optoelectronics and Sensorics
	Oral talks 1.
12:15 – 12:30	**O-1.** *Daria Cheshkina.* Condensations of 4,5- and 1,8-Diazafluorenes
12:30 – 12:45	**O-2.** *Polina Shaposhnik.* New Siloxane Polymers with Grafted BTBT Groups as Materials for Organic Field-Effect Transistors
12:45 – 13:00	**O-3.** *Askold Trul.* Sensing Mechanism of Sensor Devices Based on Organic Field-Effect Transistors
13:00 – 14:00	**Lunch**
	Chair: *Maxim Kazantsev*

14:00 – 14:30	**I-4.** *Shinto Varghese.* Mechanical Conformity in π-Conjugated Molecular Crystals
	Oral talks 2.
14:30 – 14:45	**O-4.** *Valeriy Postnikov.* Polymorphism of Crystals Based on Linear Conjugated Molecules with a Central 2,1,3-Benzothiadiazole Fragment
14:45 – 15:00	**O-5.** *Irina Gudkova.* Synthesis and Phase Behavior Study of a New Organosilicon Tetramer with Octylhexyl-Substituted [1]Benzothieno[3,2-B][1]Benzothiophene Moieties
15:00 – 15:15	**O-6.** *Lev Levkov.* Conjugated Polymers Based on Alkylthiophene-Substituted Derivatives of Benzothieno[3,2-B][1]Benzothiophene
15:15 – 15:30	**O-7.** *Akim Shmalko.* Synthesis of C- and B-Anthracenyl-Ortho-Carboranes with Various Substituents in The Carborane Core
15:30 – 15:45	**O-8.** *Aleksander Mitroshin.* In Situ Synthesis of Solution-Processable TADF Polycarbazoles via Suzuki Polycondensation
15:45 – 17:15	**Coffee-break + Poster session 1 (*P-1 – P-17*)**
18:00 – 19:00	**Dinner**
19:00 – 21:00	**Sport activities**

Tuesday, September 23rd

8:00 – 9:00	**Breakfast**
	Chair: *Ratheesh Vijayaraghavan*
9:00 – 9:45	**T-4.** *Dmitry Paraschuk.* Multiresonant Luminophores for Light-Emitting Devices
9:45 – 10:15	**I-5.** *Valentina Utochnikova.* Lanthanide Based OLEDs
10:15 – 10:45	**I-6.** *Alexander Romanov.* Organometallic Complexes for Energy Efficient and Stable OLEDs
10:45 – 11:00	**Coffee-break**
	Chair: *Valentina Utochnikova*
11:00 – 11:45	**T-5.** *Anna Köhler.* Disorder, Aggregates and Vibrations in Spectroscopy
11:45 – 12:30	**T-6.** *Johannes Gierschner.* Bright or Dark - Regulation of Radiative vs. Nonradiative Processes in Novel Organic Materials
	Oral talks 3.
12:30 – 12:45	**O-9.** *Amira Nada Mechekkeme.* Weak Acceptor Approach Towards Blue TADF OLED-emitters Based on Carbazole Substituted Quinolines

12:45 – 13:00	**O-10.** *Olga Egorova.* Application of Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass-Spectroscopy in Research and Development of Organic Light Emitting Diodes
13:00 – 14:00	**Lunch**
	Chair: *Alexander Romanov*
14:00 – 14:45	**T-7.** *Artem Bakulin.* Monitoring Electronic Defects and Their Impact on the Device Performance of Processable Electronic Materials
14:45 – 15:15	**I-7.** *Oleg Kharlanov.* Electron-Phonon Interaction and Charge Transport in Organic Semiconductors
	Oral talks 4.
15:15 – 15:30	**O-11.** *Andrey Sosorev.* Novel Multi-Resonance Diindolophenazine Derivatives for Efficient Blue OLEDS
15:30 – 15:45	**O-12.** *Nikita Dubinets.* Multiscale Quantum Chemical Calculations of TADF-Luminophores in OLED
15:45 – 16:00	**O-13.** *Artem Toropin.* Comparative Analysis of The Applicability of Analytical Models of Charge Carrier Mobility in Disordered Organic Semiconductors
16:00 – 16:15	**O-14.** *Anna Saunina.* Effect of Exciton Transport and Dissociation Characteristics on The Performance of Photovoltaic Cell with Quantum Dot-Based Active Layer
16:15 – 16:30	**O-15.** *Yuriy Zhabanov.* Application of Theoretical and Experimental Structural Methods to Study Macrocycles for Organic Electronics
16:30 – 18:00	**Coffee-break + Poster session 1 (*P-18 – P-34*)**
18:00 – 19:00	**Dinner**
19:00 – 21:00	**Sport activities**

Wednesday, September 24th

8:00 – 9:00	**Breakfast**
	Chair: *Sergey Ponomarenko*
9:00 – 9:30	**I-8.** *Maria Rosa Antognazza.* Bio-Hybrid Photoactive Interfaces for Optoelectronic Modulation of Living Cell Fate
9:30 – 10:00	**I-9.** *Raul David Rodriguez.* Engineering 2D Material/Bio-Interfaces by Laser Forging
	Oral talks 5.
10:00 – 10:15	**O-16.** *Elena Poimanova.* Influence of Semiconductor Layer Thickness on The Operational Properties of Electrolyte-Gated Field-Effect Transistor
10:15 – 10:30	**O-17.** *Dmitry Godovsky.* Novel Non-Condensed Acceptors Based on 4H-Dithieno[3,2-B:2',3'-D]Pyrrole and 4H-Cyclopenta[1,2-B:5,4-B']Dithiophenen,S-Heterocycles with an Ethynylene Linker for Ternary Polymer Solar Cells with an Efficiency more than 15%

10:30 – 10:45	**O-18.** *Mukhamed Keshtov.* New 5,6-Bis(6-Fluoro-9H-Carbazol-3-Yl)Naphtho[2,1-B:3,4-B']Dithiophene Containing Π-Conjugated Wide Bandgap Donor Polymer Synthesized via Direct Arylation Polycondensation for Ternary Non-Fullerene Organic Solar Cells
10:45 – 11:00	**Coffee-break**
	Chair: *Dmitry Godovsky*
	Oral talks 6.
11:00 – 11:15	**O-19.** *Mikhail Uvarov.* Stable Radicals as Admixtures in The Active Layers of Organic Photovoltaic Cells
11:15 – 11:30	**O-20.** *Georgy Pakhomov.* Photoconductivity in thin films of oil porphyrins
11:30 – 11:45	**O-21.** *Polina Sukhorukova.* Design of Triphenylamine-Based Molecules with Anchor Group for Interfacial Layers of Perovskite Solar Cells
11:45 – 12:00	**O-22.** *Maria Sandzhieva.* Novel Organic and Hybrid Organic-Perovskite Composite Materials for Light Emitting Application
12:00 – 13:00	**Sport activities**
13:00 – 14:00	**Lunch**
14:00 – 18:30	**Trip to Abramtsevo Museum (optional) / Sport activities**
19:00 – 23:00	**Conference Dinner**

Thursday, September 25th

8:00 – 9:00	**Breakfast**
	Chair: *Dmitry Paraschuk*
9:00 – 9:45	**T-8.** *Kostas Daoulas.* Choosing The Right Formulation of Polymer-Based Inks for Printed Electronics: Opportunities and Challenges for Molecular Simulations
9:45 – 10:30	**T-9.** *Souren Grigorian.* Probing Thin Film and Nanostructure Morphologies with Surface-Sensitive X-ray Techniques
10:30 – 11:00	**I-10.** *Alessandro Troisi.* Modelling Charge Transport in Conjugated Polymers: The Challenges of High-Throughput Simulation and Mixed Ionic-Electronic Transport
11:00 – 12:00	**School closing**
12:00 – 13:00	**Sport activities**
13:00 – 14:00	**Lunch / Hotel check out**
14:00 – 14:15	**Departure to Moscow**

Poster session 1

Monday, September 22nd, 15:45

Aladeva, Aleksandra V.	P1	Features of Crystallization in Solutions of 4,7-Diphenyl-2,1,3-Benzothiadiazole and Its Derivatives with Terminal Alkyl Substituents
Bezsudnov, Igor V.	P2	A Two-stage Heating Mode for Thermomechanical Muscles Testing
Bobrova, Elizaveta A.	P3	New Triazine -Based Molecules for Organic Electronic Devices
Demianenko, Alena I.	P4	Anion Effect on Modulation of Synaptic Properties of Organic Biocompatible-Ionogel Electrolyte Neuromorphic Transistors for Deep Neural Networks
Dominskiy, Dmitry I.	P5	High-Vacuum Sublimation of Organic Semiconductor Materials for OLEDs
Filipenkov, Dmitry A.	P6	Impact of Organic Light Emitting Diodes Structure on The Charge Carrier Recombination Profile
Gaikov, Dmitry K.	P7	Creation And Research of Luminescent Compositions with Improved Characteristics for Light-Conversion Photoresists
Ghazaryan, Gagik S.	P8	Modeling The Behavior of Circular Dielectric Elastomer Actuators
Khitrov, Michael D.	P9	Theoretical Development of Diboraanthracene TADF Luminophores for Green OLEDs
Khmelnitskaia, Alina G.	P10	Development of Modified PDMS/MQ Composite as Dielectric Elastomers Actuators
Kleymyuk, Elena A.	P11	Synthesis and Study of The Properties of Host-Materials for the Emitting Layer of OLED
Koshelev, Daniil S.	P12	NIR OLED Based on Ytterbium Complexes with Schiff Bases
Krasnikov, Danila A.	P13	Baseline Drift Correction for OFET-Based Gas Sensors
Kuzmin, Ilya A.	P14	Influence of Intermolecular Interactions on The Electronic Absorption Spectra of SiF2-Etioporphyrin
Lavrinchenko, Igor A.	P15	Azolyl-Containing Luminescent Materials Based on Ortho-Carborane
Levitskaya, Alina I.	P16	Molecular Design of Polymer Materials Composed of Polyimide Matrix and Azochromophores Guests for Electrooptical Applications
Litvinenko, Daniil N.	P17	Geminate Pair Separation Probability in Organic Semiconductors: The Effect of Disorder and Energy Nonequilibrium (A Monte Carlo Study)

Poster session 2

Tuesday, September 23rd, 16:45

Mikhailov, Maxim S.	P18	New Diindolophenazine-Based Fluorophores with Highly Efficient Blue Electroluminescence
Nikerov, Dmitry V.	P19	New Method of Determining Charge Carrier Mobility in Thin Layers of Organic Crystals Using Time-of-Flight Technique
Poletavkina, Liya A.	P20	Synthesis, Study of Structure-Property Relationships and Comparative Analysis of New Annelated Push-Pull Semiconductors Based on Indolo[3,2-B]Indole and Benzothieno[3,2-B]Benzothiophene
Polyakov, Roman A.	P21	Optical Study of Non-Conjugated Polymers with Different Main Chain Nature for OLED Applications
Ponomareva, Anastasia V.	P22	Polymer Materials for Use in Light-Emitting Diodes
Popova, Vlada V.	P23	Terminal Groups Impact on The Properties of 2,1,3 Benzothiadiazole-Based Phenylene Derivatives
Potapov, Danil A	P24	Synthesis and Physicochemical Properties of Thiophene-Containing Derivatives of 4,5-Diazafluorene
Samburskiy, Denis E.	P25	Centrosymmetric Donor-Acceptor TADF-Emitters for Single-Layer OLED Exhibiting Aggregation-Induced Emission
Sorokina, Ekaterina A.	P26	Synthesis of Copolymers with Grafted Biotin-Containing BTBT Segments Based on Polysiloxane and Polystyrene
Stakanova, Daria E.	P27	Functional and Non-Functional Oligomers Based on 4,4'-Bis(2,1,3-Benzothiadiazole)
Starikova, Natalya D.	P28	Novel Chromophores, Incorporating 2,3-Diphenylthiophene Moieties
Tarakanovskaya, Daria D.	P39	Optoelectronic Property Prediction and Generation of Multi-Resonance Thermally Activated Delayed Fluorescence Molecules Using Graph and Multimodal Neural Networks
Titova, Yaroslava O.	P30	Semiconductor Properties of Novel [1]Benzothieno[3,2-b][1] Benzothiophene Derivatives in OFETs Prepared by Solution Processing
Trukhanov, Vasiliy A.	P31	Organic Light-Emitting Diodes Based on Thienyl-Containing Derivative of Tris(2,4,6-Trichlorophenyl)Methyl Radical
Zaborin, Evgeniy A.	P32	Grafted Polymers with Benzothieno[3,2-B]Benzothiophene (BTBT) Moieties as Side Groups: Prospects for High-Performance Organic Semiconductors
Dyadishchev, Ivan V.	P33	Synthesis and Properties of Π-Conjugated Molecular Liquids with Trihexylsilyl Terminal Substituents
Kuleshov, Bogdan S.	P34	Electrolyte-Gated Organic Field-Effect Transistor as a Perspective Platform for Detecting Metals in Aqueous Solutions

СКОРОХОД – УНИВЕРСАЛЬНАЯ ПЛАТФОРМА ДЛЯ УНИКАЛЬНЫХ РЕШЕНИЙ

- **ФОТОМЕТРИЧЕСКИЕ ДЕТЕКТОРЫ** (СФД И ДМД) С ДВОЙНЫМ ТЕМПЕРАТУРНЫМ КОНТРОЛЕМ. ДРЕЙФ: 3×10^{-4} Е.О.П./Ч
- **АВТОДОЗАТОР** ПРЯМОГО ДОЗИРОВАНИЯ ПРОБЫ ИЗ ИГЛЫ «SPLIT-LOOP" (ЕДИНСТВЕННЫЙ В РФ)
- **НАСОСЫ** КОРОТКОХОДОВЫЕ БЕЗПУЛЬСАЦИОННЫЕ

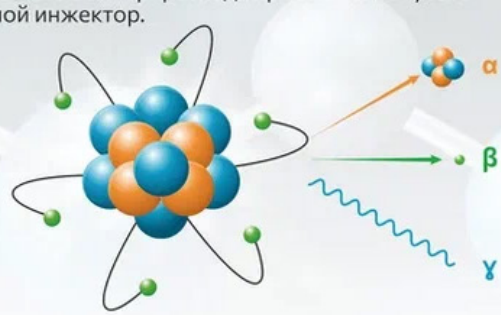
SEVKO — ПРОИЗВОДИМ, А НЕ СОБИРАЕМ

ЛУЧШЕЕ ДЛЯ СВОИХ — SKOROHOD

- **СТОЙКОСТЬ** КО ВСЕМ ОРГАНИЧЕСКИМ РАСТВОРИТЕЛЯМ, PH = 1-14
- **КОМПАКТНОСТЬ** (НА 35-50% МЕНЬШЕ МОНОБЛОКОВ ЗАПАДНОГО ПРОИЗВОДСТВА)
- **СООТВЕТСТВИЕ ПО** 21 CFR PART 11. ПРЯМОЕ **УПРАВЛЕНИЕ ВСЕМИ МОДУЛЯМИ** ЭКОСИСТЕМЫ «СКОРОХОД»

Уникальное отечественное решение для ВЭЖХ радиофармпрепаратов: хроматограф "Скороход" с γ-радиометрическим детектором

- Регистрация в реальном времени γ-спектра радионуколида с возможностью построения 3D-хроматограммы.
- Настраиваемая геометрия детектора для работы в аналитическом и препаративном режимах.
- Быстрая смена детекторов γ- и β-излучения. Детектор для α-излучающих радионкулидов.
- Автодозатор прямого дозирования (split-loop) для ввода самых малых объемов без перерасхода пробы или полуавтоматический ручной инжектор.

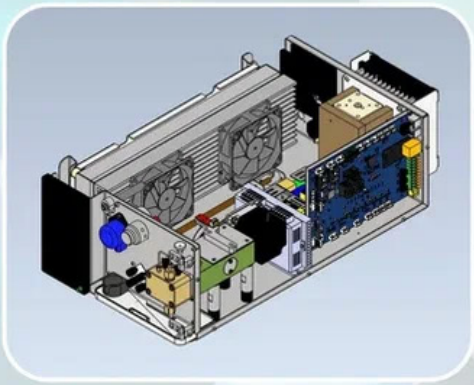


SKOROHOD +7 (926) 142-95-12 nan@sevko.net SEVKO

Модуль постколоночной дериватизации из серии ВЭЖХ "Скороход". Готовые решения, проверенные временем

Анализ аминокислот

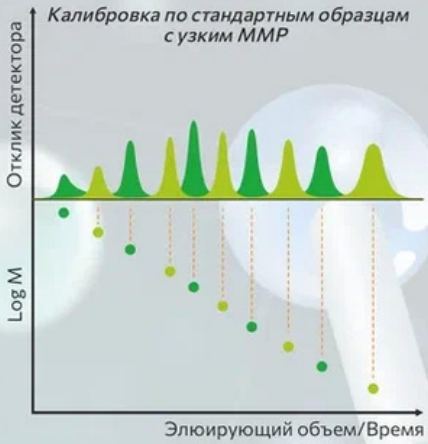
- Оригинальная разработка на основе отечественной компонентной базы.
- Единственный модуль постколоночной дериватизации в РФ: более 10 лет успешной работы с хроматографами разных марок.
- Инертное исполнение ВЭЖХ-системы.
- Лоток для бутылей с системой подачи инертного газа.
- Катионообменные колонки собственного производства.
- Набор реагентов для определения аминокислот в комплекте.
- Демонстрация методики на вашей площадке.



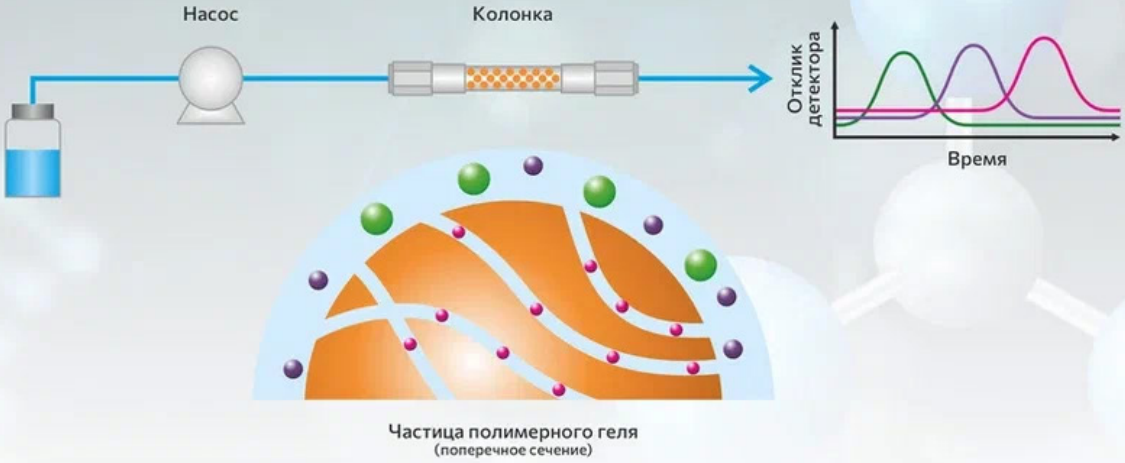
Альтернативные применения постколоночной дериватизации

- Биогенные амины.
- Монезин, наразин и салиномицин.
- Мадурамицин аммония, семдурамицин натрия, гидрат гадодиамида.
- Редуцирующие и фосфорилированные редуцирующие сахара.
- Анионы переходных и тяжелых металлов.
- Водорастворимые витамины B1, B2, B6 (ГОСТ 32903-2014).
- Афлатоксин B1 (ГОСТ 32251-2013, ЕН-12955) и сумма афлатоксинов B1, B2, G1 и G2 (ЕН-12955).

ХРОМАТОГРАФ «СКОРОХОД» ДЛЯ АНАЛИЗА ПОЛИМЕРОВ МЕТОДОМ ГПХ



- Единое ПО Мультихром для управления прибором и обсчета данных ГПХ.
- Непревзойденные повторяемость (0,06 % ОСКО) и точность (± 0,15 %) потока подвижной фазы, а также стабильность поддержания температуры (± 0,1 °С) гарантируют отсутствие ошибок при определении ММ полимеров.
- Стойкость к ТГФ, ДМФА, ДМСО, ДМАА, ГФИП, хлорированным растворителям.
- Вместительный термостат для работы с каскадами колонок.
- Широкий температурный диапазон (до 99 °С).
- Плавное увеличение скорости потока подвижной фазы во избежание повреждения частиц полимерного геля.
- Разнообразие концентрационных детекторов (РФД, СФД, ДМД, СРД).
- Инертное исполнение для работы с биомолекулами.



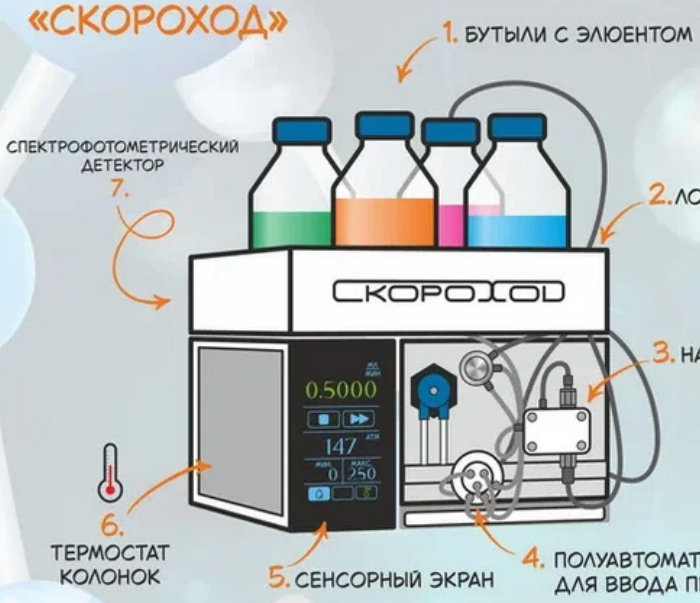
Частица полимерного геля
(поперечное сечение)

УЧЕБНЫЕ ХРОМАТОГРАФЫ «СКОРОХОД»

УЧЕБНЫЙ ВЭЖХ «СКОРОХОД»

СОВЕРШАЙ ОТКРЫТИЯ ВМЕСТЕ СО СКОРОХОДОМ!

ПОГРУЗИСЬ В УВЛЕКАТЕЛЬНЫЙ МИР ХРОМАТОГРАФИИ ВМЕСТЕ С НАМИ!



- МОНОБЛОЧНОЕ ИСПОЛНЕНИЕ - ВСЕ КОМПОНЕНТЫ ВЭЖХ В ОДНОМ КОРПУСЕ
- КОМПАКТНОСТЬ - ПОДХОДИТ ДЛЯ ОБОРУДОВАНИЯ КЛАССОВ И АУДИТОРИЙ
- ИЗОКРАТИЧЕСКИЙ ИЛИ ГРАДИЕНТНЫЙ РЕЖИМЫ
- СПЕКТРОФОТОМЕТРИЧЕСКИЙ ДЕТЕКТОР С ФИКСИРОВАННЫМИ ИЛИ ПЕРЕКЛЮЧАЕМЫМИ ДЛИНАМИ ВОЛН

ПРЕПАРАТИВНЫЕ И ПОЛУПРЕПАРАТИВНЫЕ ХРОМАТОГРАФЫ «СКОРОХОД»

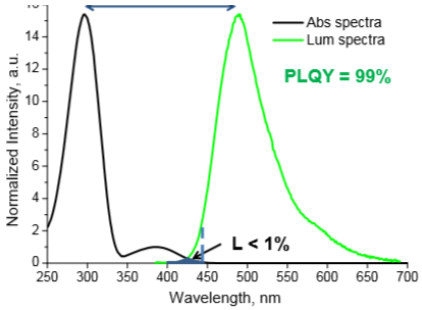
- Насосы производительностью 150 мл/мин, 40 мл/мин и 10 мл/мин.
- Автоматический коллектор фракций, гибко конфигурируемый под любые приемные сосуды, или автоматические краны для сбора фракций.
- Держатели аналитических, препаративных и полупрепаративных колонок.
- Любые детекторы: СФД, ДМД, РФД, ФЛД, СРД с ячейками, соответствующими масштабу разделения.
- Автоматический сбор фракций по программируемым сигналам детектора при помощи ПО Мультихром.
- Инертное исполнение для работы с биомолекулами.
- Расчет и масштабирование системы из аналитической.

LumInnoTech

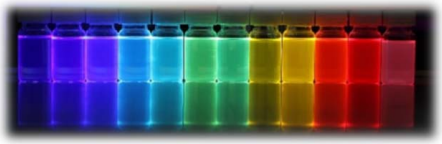
The main goal of LumInnoTech is research, development and commercialization of Nanostructured Organosilicon Luminophores (NOLs) with unique optical properties combining those of organic luminophores and inorganic quantum dots.

Key advantages of NOLs:

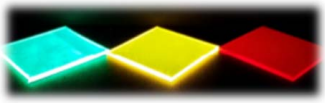
- High luminescence quantum yield: up to 99%
- High molar extinction coefficient: up to 300 000
- Large pseudo Stokes shift: up to 250 – 300 nm
- The possibility of controlling a wavelength of the light emission in a wide range
- Good solution processability
- High stability



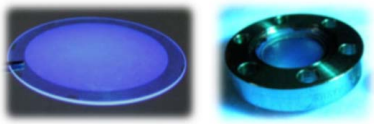
➢ **A library of NOLs, emitting at the desired wavelengths in the range from 390 to 650 nm.**



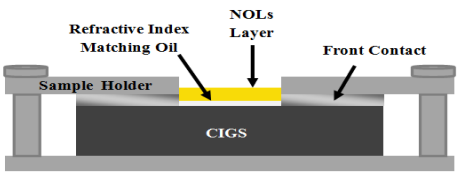
➢ **Wavelength shifting plates for pure CsI crystals**



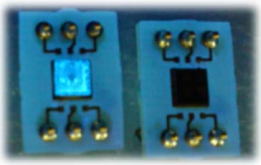
➢ **VUV wavelength shifters for improving photon detection efficiency of noble gas detectors**



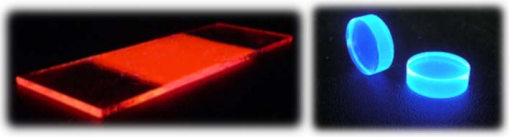
➢ **Luminescent Down Shifting Materials for CIGS Photovoltaics**



➢ **Effective Spectral Shifters for Silicon Photomultipliers**



➢ **New generation of highly efficient and fast plastic and organosilicon scintillators**



➢ **Various NOLs are available from 100 mg to 100 g quantity**

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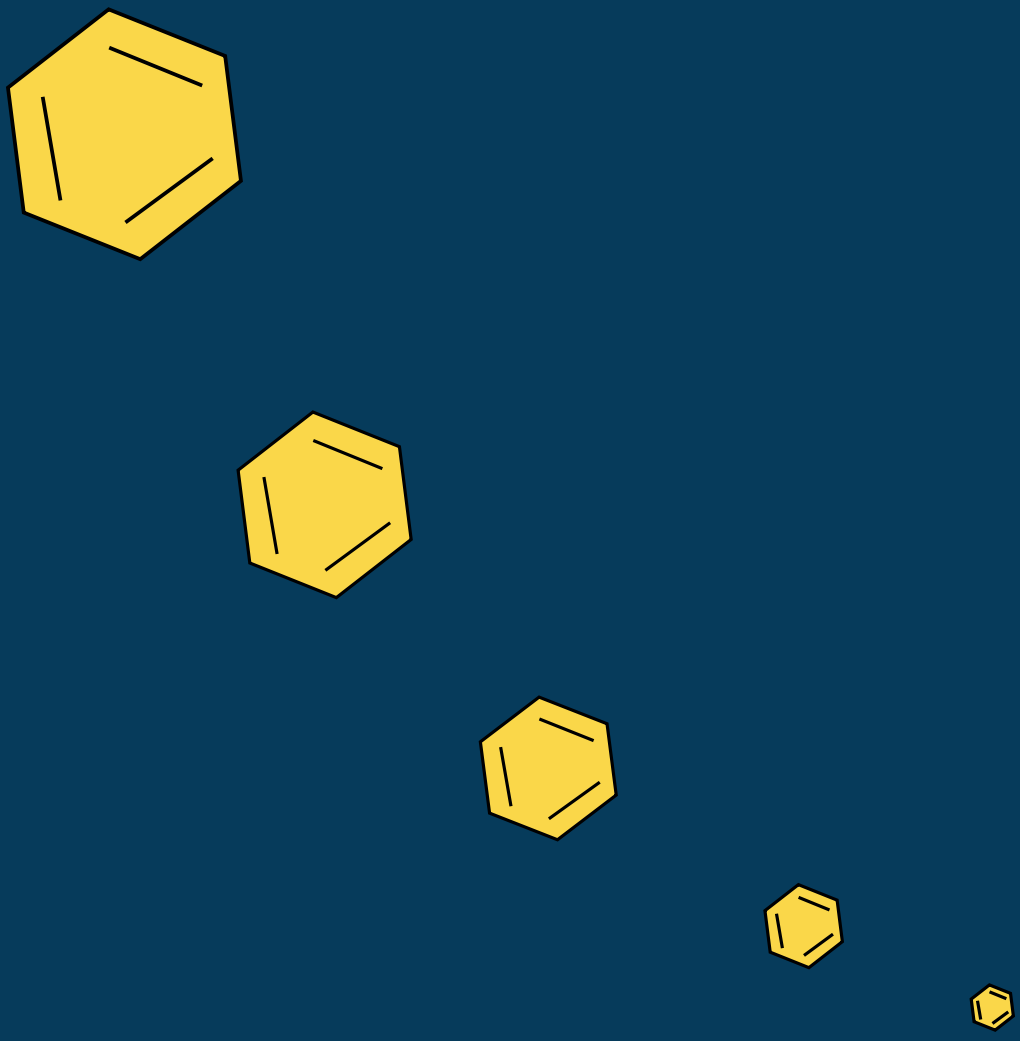
LumInnoTech@gmail.com http://www.luminnotech.com

RSF Russian Science Foundation LumInnoTech



SEVKO SKOROHOD