

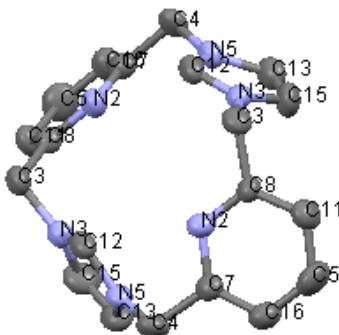
“Alexandru Ioan Cuza” University Days

Faculty of Chemistry Conference
&

Mini-Hot-Conference:

*„Recent Achievements in Organic and
Supramolecular Chemistry”*

PROGRAM



Iasi, Romania

October 31st – November 02nd, 2013



NITECH®



Mini-Hot-Conference:

*„Recent Achievements in Organic
and Supramolecular Chemistry”*

Scientific Committee

President and Chairman of the Conference

Prof. univ. dr. Ionel Mangalagiu *“Al. I. Cuza” University of Iasi*

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Acad. dr. eng. Bogdan Simionescu *Macromoleclar Chemistry
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Associate prof. Doina Humelnicu *“Al. I. Cuza” University of Iasi*

Associate prof. Romeo Olariu *“Al. I. Cuza” University of Iasi*

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Dr. Vasilichia Antoci

Univ. assist. drd. Dan Maftei

Scientific Program

Day 1

Thursday, October 31st

**Location: Aula Magna, “Alexandru Ioan Cuza”
University of Iasi**

08⁰⁰ - 8⁴⁵ **Registration**

08⁴⁵-09⁰⁰ **Opening**

Welcome address

- **Vasile Isan**, Rector, “Alexandru Ioan Cuza”
University of Iasi, Romania

- **Ionel Mangalagiu**, Dean, Faculty of Chemistry,
Chairman of Organizing Committee

Session 1

Plenary lectures

Chairpersons: Prof. Marc Sallé,

Accad. Marius Andruh

C1

09⁰⁰-09³⁰

***Photoswitchable Difurylethenes with Extended π -
Systems for Applications in Single-Molecular
Electronics***

Thomas Huhn, University of Konstanz, Germany

C2

09³⁰-10⁰⁰

Diamond D5 allotropes

Mircea Diudea, Babes-Bolyai University Cluj,
Romania

C3

10⁰⁰-10³⁰

***Sulfonoketenimides as key Intermediates for
Tandem Synthesis of Organic Compounds***

Issa Yavari, Tarbiat University of Teheran, Iran

C4
10³⁰-11⁰⁰ ***Structural diversity and chemical reactivity of organoselenium compounds***
Anca Silvestru, Babes-Bolyai University Cluj, Romania

11⁰⁰-11³⁰ ***Coffee break***

Session 2

Plenary lectures

Chairpersons: Prof. Thomas Huhn,
Prof. Anca Silvestru

C5
11³⁰-12⁰⁰ ***Self-assembled electron-rich receptors: from molecular polygons to polyhedra***
Marc Sallé, University of Angers, France

C6
12⁰⁰-12³⁰ ***The interplay of non-covalent interactions in designing molecular crystals***
Marius Andruh, University of Bucharest, Romania

C7
12³⁰-13⁰⁰ ***Design and Synthesis of Nitrogen Containing Drimanic Compounds***
Aculina Aricu, Academy of Science Chisinau, Moldova

C8
13⁰⁰-13³⁰ ***Bent Core Liquid Crystals***
Dan Scutaru, "Ghe. Asachi" University of Iasi, Romania

13³⁰-14³⁰ ***Lunch***

Session 3

Plenary lectures

Chairpersons: Prof. Aculina Aricu,
Prof. Dan Scutaru

C9
14³⁰-15⁰⁰ ***Helical (supra)molecular chirality in TTFs and derived materials***
Narcis Avarvari, University of Angers, France

C10 *Diversity oriented Generation of Quaternary*
15⁰⁰-15³⁰ *Centers in Oxindoles*
Fliur Makaev, Academy of Science Chisinau,
Moldova

C11 *Electron and Energy Transfer in Molecular*
15³⁰-16⁰⁰ *Systems*

Andrew Benniston, Newcastle University, UK

C12 *Polynuclear metal coordination compounds:*
16⁰⁰-16³⁰ *structure and properties*

Constantin Turta, Academy of Science Chisinau,
Moldova

16³⁰-17⁰⁰ *Coffee break*

Session 4

Plenary lectures

Chairpersons: Prof. Narcis Avarvari,
Prof. Mircea Diudea

C13 *Application of graph theory to genome sequencing*
17⁰⁰-17³⁰ **Ali Iranmanesh**, Tarbiat University of Teheran,
Iran

C14 *Azaheterocycles: an efficient way towards*
17³⁰-18⁰⁰ *derivatives with multiple functions*
Ionel Mangalagiu, “Alexandru Ioan Cuza”
University Iasi, Romania

18³⁰ Cocktail (Akademos Restaurant)

Faculty of Chemistry Conference

Scientific Committee

President: Prof. univ. dr. Ionel Mangalagiu

Acad. dr. Marius Andruh

Acad. dr. eng. Bogdan Simionescu

Corr. M. Acad. Rom. Cristian Silvestru

Prof. univ. dr. eng. Dan Cascaval

Prof. univ. dr. Gabi Drochioiu

Associate prof. dr. Adrian Birzu

Associate prof. dr. Doina Humelnicu

Associate prof. dr. Romeo Olariu

Organizing committee

Prof. univ. dr. Aurel Pui

Associate prof. dr. Ionel Humelnicu

Associate prof. dr. Arsene Cecilia

Univ. lect. dr. Doina Lutic

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Univ. assist. dr. Dorina Mantu

Secretary

Univ. lect. dr. Nicoleta Cornei

Univ. lect. dr. Robert Gradinaru

Univ. asist.drd. Dan Maftei

Dr. Cătalina Ciobanu

Admin. Vasile Vatra

Scientific Program

Day 2

Friday, November 1st

Location: Faculty of Chemistry, Lecture Hall P3

08³⁰-09⁰⁰ **Registration of the participants**
Display of posters

09⁰⁰-09⁰⁵ *Opening ceremony*

Session 1

Chairpersons:

Prof. dr. Aurelia Vasile

Associate prof. dr. Ionel Humelnicu

09⁰⁵-09²⁰ **Laudatio:**
Professor dr. Lucia Odochian
Professor dr. Maria Caprosu
Associate Professor dr. Catinca Simion

09²⁰-9³⁰ *Nobel Prize for Chemistry 2013*
presented by Associate prof. dr. Ionel Humelnicu
Comparative study of the acid hydrolysis of sucrose
and cellobiose
Gheorghe Zgherea⁴

CP
09³⁰-10¹⁰ *The role of Mn²⁺ ion in the oscillating Briggs-Rauscher reaction*
Gelu Bourceanu¹ and Rodica Nitoi¹

CO2
10³⁵-11⁰⁰ *Chemicals in chemists' indoor dust. Case study for Department of Chemistry, “AL. I. Cuza” University of Iasi, Romania*
Alin C. Dirtu^{1,26}, Adrian Covaci²⁵

11⁰⁰-11³⁰ **POSTER SESSION**

COFFEE BREAK

Session 2

Chairpersons:

Associate prof. dr. Cecilia Arsene

Associate prof. dr. Doina Humelnicu

CO3 *Night chemistry of hydroxyl(methyl)benzenes: New directions in atmospheric chemistry at the A.I.Cuza University of Iasi*

11³⁰-11⁵⁵

R. I. Olariu¹, I. Barnes¹⁹, I. Bejan^{1,19}, C. Arsene¹, D. Vione²⁰, B. Klotz¹⁹, K. H. Becker¹⁹

CO4 *FESEM analysis for studying micro-nano-morphology features of LDH*

11⁵⁵-12²⁰

Dragos Mardare^{2}, Alexandru Buga², Gabriela Carja²*

SC1 *Flow reactor ozonolysis studies of selected dimethyl hexenes in the gas phase*

12²⁰-12³⁰

Cecilia Arsene¹, Romeo Iulian Olariu¹, Marius Duncianu⁶, Veronique Riffault⁶, Alexandre Tomas⁶

SC2 *Synthesis, spectral stability and photoluminescent properties of arylenevinylene polymers containing 2,7 - carbazolyldiyl and 3,6 - carbazolyldiyl moieties in the main chain*

12³⁰-12⁴⁰

Ana-Maria Catargiu³, Loredana Văcăreanu³ and Mircea Grigoraș³

SC3 *Synthesis and characterization of poly(triphenylamine)-g-poly(ethyl methacrylate) using in tandem controlled radical polymerization and chemical oxidative polymerization*

12⁴⁰-12⁵⁰

Oana Iuliana Negru³ and Mircea Grigoraș³

SC4
12⁵⁰-13⁰⁰ *New supramolecular polyhedral oligomeric silsesquioxanes: synthesis and structural characterization*
Ana-Maria Corina Dumitriu³, Maria Cazacu³ and Sergiu Shova³

13⁰⁰-14⁰⁰

LUNCH

Session 3

Chairpersons:

Associate prof. dr. Adrian Birzu

Associate prof. dr. Romeo Olariu

CO5
14⁰⁰-14²⁵ *Investigation of ZnAl-layered double hydroxides for phenol photodegradation*
C. M. Puscașu^{2*}, E. M. Seftel²², M. Mertens²³, P. Cool²², G. Carja²

CO6
14²⁵-14⁵⁰ *Oxidative dimerization of the salicylaldehyde thiosemicarbazone promoted by manganese ions: structure and magnetic studies*
O. Palamarciuc^{1,24*}, M. Revenco²⁴, R. Clerac^{30,31}, P. Bourosh³², V. Cravtsov³²

SC5
14⁵⁰-15⁰⁰ *The synthesis particularities of some coordination compounds obtained using a series of new amide derivatives as ligands containing imidazole and benzimidazole*
Irina Vodă²¹

SC6
15⁰⁰-15¹⁰ *Synthesis, spectral characterization and X-ray structure of a new coordination compound of cobalt(II) and N,N'-(butane-1,4-diyl)bis(2-1H-benzimidazol-1-yl)acetamide*
Irina Vodă²¹, Constantin Turta²¹, Gheorghiuță Zbancioc¹, Costel Moldoveanu¹, Mircea Ondin Apostu¹, Ionel I. Mangalagiu^{1*}

SC7 *Synthesis and biological evaluation of new indolizine derivatives as antitumoral agents*
15¹⁰-15²⁰
Liliana Lucescu¹, Alina Ghineț¹, Dalila Belei¹, Elena Bîcu¹

15²⁰-16⁰⁰ **POSTER SESSION**

COFFEE BREAK

Session 4

**Chairpersons: Univ. lect. dr. Doina Lutic
Prof. dr. Aurel Pui**

CO7 *One step solution-combustion synthesis of La₂CoMnO₆ nanoparticles*
16⁰⁰-16²⁵
Daniel Ghercă^{1*}, Nicoleta Cornei¹, Olivier Mentre³³, Houria Kabbour³³, Sylvie Daviero-Minaud³³, Nathalie Tancret³³, Aurel Pui¹

CO8 *Microwave Synthesis @ Anton Paar*
16²⁵-16⁵⁰
Albert Istvan^{38,39}

SC8 *New heterocyclic derivatives bearing amino acid units recognized by the protein farnesyltransferase*
16⁵⁰-17⁰⁰
Gina-Mirabela Dumitriu¹, Dalila Belei¹, Alina Ghineț¹, Elena Bîcu¹

SC9 *Synthesis and antiproliferative activity of new indolizine derivatives*
17⁰⁰-17¹⁰
Carmen Dumea¹, Dalila Belei¹, Alina Ghinet¹, Elena Bîcu¹

SC10 *Mass spectrometric based methods for rigorous characterization of antibody-antigen interaction*
17¹⁰-17²⁰
Claudia Andrieș^{1,37}, Laura Ion^{1,37}, Ștefan Slămnoiu³⁷, Michael Przybylski³⁷, Brîndușa Alina Petre^{1,37}

SC11 *Spectrophotometric methods applied in the
17²⁰-17³⁰ investigation of corn meals and zeins*

*Sabina Băncilă¹, Brîndușa Alina Petre¹, Manuela
Murariu³, Cătălina Ciobanu¹, Gabi Drochioiu^{1,3}*

17³⁰-17⁴⁵ **POSTER SESSION**

17⁴⁵ **AWARDS FOR THE BEST PARTICIPANTS**

CLOSING SPEECH



POSTERS

- P1** *Synthesis and characterization of silver nanoparticles in the presence of pullulan and 6-carboxyl pullulan*
Alina Spătareanu³, Liviu Săcărescu³, Cristina Rimbu⁷, Valeria Harabagiu³, Sergiu Coseri³
- P2** *Synthesis and characterization of new imidazole/benzimidazole salts*
Dorina Mantu¹, Vasilichia Antoci¹, Costel Moldoveanu¹, Gheorghită Zbancioc¹, Ionel I. Mangalagiu¹
- P3** *Synthesis and XRD structure elucidation of new fluorescent pyrrolo-imidazole*
Gheorghită Zbancioc^{1*}, Costel Moldoveanu¹, Dan Maftעי¹, Vasilichia Antoci¹ and Ionel Mangalagiu¹
- P4** *Synthesis of new imidazolium salts with imidazol skeleton*
C. Moldoveanu^{1*}, Ghe. Zbancioc¹, D. Mantu¹, P. M. Stiuleac¹, I. O. Silea¹, I. Mangalagiu¹
- P5** *Synthesis of new pyrrolo[1,2-i][1,7] phenanthroline derivatives*
M.C. Al-Matarneh^{1*}, T. Daniloaia¹, R. Danac¹
- P6** *New bis-imidazolium salts: synthesis and NMR characterization*
Vasilichia Antoci¹, Dorina Mantu¹, Gheorghită Zbancioc¹, Costel Modoveanu¹, Alina Nicolescu³, Cătălina Ciobanu¹, Ionel I. Mangalagiu^{1*}
- P7** *Synthesis, spectral investigation and X-ray structure of 2,2'-bipyridyl-3,3'-dimethanol*
Gabriel Mengheres¹, Vasilichia Antoci¹, Ionel I. Mangalagiu¹
- P8** *Sorption studies on anion exchange resin/gellan microparticles*
Ștefania Racoviță³, Silvia Vasiliu³, Cristina Doina Vlad³
- P9** *Substrate preference of serotonin receptors through in silico docking experiments*
Roxana-Maria Amărăndi^{1*}, Călin-Lucian Maniu³⁴, Ramona Dănac¹, Aurel Pui¹
-

- P10** *Synthesis and characterization of 2,6-bis(quinolin-2-yl)pyridine ligand for homoleptic Ru(II) complexation*
Ion Marin²¹
- P11** *Design of microparticulate systems with special architecture based on glycidyl metacrylate*
Maria-Andreea Lungan², Marcel Popa², Florica Doroftei³, Gabriela Hitruc³, Ștefania Racoviță³, Silvia Vasiliu³
- P12** *Synthesis, characterization and potential application of ZnO/polymers nanocomposites in medical dentistry*
G. Călin⁵, L. Olaru³, N. Olaru³, L. Dârțu⁵, V. Burlui⁵
- P13** *Some antibiotics dosage in different aqueous systems and effluents from dental treatment*
Laura Dârțu⁵, Carmen Zaharia², Vasile Burlui⁵
- P14** *Symmetric banana-shaped liquid crystals with resorcinol as a central unit*
Cătălina-Ionica Ciobanu¹, Irina Cârlescu², Dan Scutaru²
- P15** *Synthesis and characterization of new vinyl acetate-based copolymers with urethane and urea groups*
Mioara Murariu^{3*}, Emil C. Buruiană³
- P16** *Influence of organic and mineral fertilization on the content of polyphenols and tannins of forages from a permanent grassland in north-eastern Romania (Cosna)*
Doina Tarcău⁷, Alina-Giorgiana Negru¹, Vasile Vintu⁷, Costel Samuil⁷, Simona-Maria Cucu-Man¹
- P17** *Comparative study of field collected samples of aged silicon rubber composite coatings for high voltage insulators.*
I.V. Tudose^{1,10}, M. Suchea^{1,10,12}, K. Siderakis^{11,12}, E. Thalassinakis¹³, E. Koudoumas^{10,12}
- P18** *Precursor concentration effect on structure and morphology of ZnO for coatings on fabric substrates*
M. Suchea^{1,10}, I.V. Tudose^{1,10}, N. Vrinceanu^{1,29}, B. Istrate², C. Munteanu², E. Koudoumas¹⁰
- P19** *Removal of organic azo dyes (Remazol Arancio 3R) from industrial effluents*
Carmen Zaharia^{2*}
- P20** *Quality Control Study of Siret River from Pascani Town Area and Estimation of Its Pollution Level*
Carmen Zaharia^{2*} and Iuliana Radu¹⁴

- P21** *Eco-friendly synthesis of new nitrogen heterocycles compounds using ultrasound irradiation*
Eliza-Lorena Ene (married Plesnicute)¹, Vasilichia Antoci¹, Dorina Mantu¹, Ionel I. Mangalagiu^{1*}
- P22** *Highly monodispersed hydrophobic CoFe₂O₄ nanoparticles by non-aqueous pathway*
Radu-George Ciocârlan^{1*}, Daniel Ghercă¹, Aurel Pui¹
- P23** *Vibronic structure and intramolecular charge transfer character of the lowest singlet excited state in indolizine and azaindolizines: insights from theory*
Dan Maftai^{1*}, Dumitru Claudiu Sergentu²⁷, Ionel Humelnicu¹, Ionel Mangalagiu¹
- P24** *Computational (PCM TD-DFT) study of the first electronic transitions in cis and trans isomers of azobenzene and of some derivatives*
Dragos Lucian Isac^{1*}, Dan Maftai¹, Ionel Humelnicu¹
- P25** *New octahydropyrrolo[2,1,5-cd]indolizin-6-one derivatives*
Simona Ștefanovici¹, Lucian M. Bîrsă¹, Peter G. Jones²⁵, Elena Bîcu¹, Dalila Belei¹
- P26** *Synthesis of novel N-mustard compounds with support of 2-mercapto-benzoxazole derivatives with potential antitumoral activity*
Mariana Cantemir¹, Rădița Aparaschivei¹, Corina Cheptea¹⁵, Mihaela Holban¹⁶, Dana Ortansa Dorohoi¹⁷, Valeriu Sunel¹
- P27** *Effect of some new imidazole derivatives on the peroxidase activity of wheat seeds (*Triticum aestivum*) during germination*
Ioan-Marian Rîșca³⁶, Costel Moldoveanu¹, Liviu Fărtăiș³⁷, Violeta Vasilache³⁶
- P28** *Natural polymers based submicronic particles for the release of hydrophilic active principles*
Mihaela Holban⁵, Elena Folescu⁵, Valeriu Sunel¹
- P29** *Structural, spectral and magnetic properties of Co(II), Rh(III) and Cd(II) complexes with 2-(1H-1,2,4-triazol-3-yl)pyridine*
Petronela Gospei (Horlescu)², Daniel Sutiman², Carmen Mita¹, Peptu Cristian³, Cornel Stan²

- P30** *Synthesis and characterization of some new bent core liquid crystalline compounds based on a 2,7-dihydroxynaphthalene*
Aurel Simion², Irina Cârlescu², Dan Scutaru²
- P31** *Optimization Study for the Photocatalytic Degradation of Rhodamine 6G Dye Using Doped Titania*
Doina Lutic¹, Cristina Coromelci-Pastravanu², Igor Crețescu²
- P32** *Studies regarding fabrication of ZnO functionalization cotton fibers through electroless method*
Nicoleta Preda⁴¹, Monica Enculescu⁴¹, Irina Zgura⁴¹, Marcela Socol⁴¹, Elena Matei⁴¹, Violeta Vasilache³⁶, Ionut Enculescu⁴¹
- P33** *Contributions to the thermal degradation mechanism under nitrogen atmosphere of PTFE by TG-FTIR analysis.*
Influence of the particle size.
L. Odochian^{1*}, C. Moldoveanu¹, D. Maftei¹
- P34** *Scaling up Microwave Synthesis – Moving common technology beyond the R&D laboratory scale*
Dávid Stefan Erődsi^{38, 39}, Alexander Stadler³⁹
- P35** *Recent Developments Towards Microwave-Assisted Method Development and Optimization*
Dávid Stefan Erődsi^{38, 39}, Alexander Stadler³⁹
- P36** *Hydrodynamics of fluidized bed consisting of adsorbent particles*
Gabriela Muntianu⁴⁰, Vasilica Alisa Arus⁴⁰, Nicoleta Platon⁴⁰, Ana Maria Rosu⁴⁰, Denisa Ileana Nistor⁴⁰, Gheorghita Jinescu¹⁸
- P37** *Hydrotalcites with different molar ratios Mg/Al - preparation and characterization*
Vasilica Alisa Arus⁴⁰, Ileana Denisa Nistor⁴⁰, Neculai Doru Miron⁴⁰, Roșu Ana-Maria⁴⁰, Platon Nicoleta⁴⁰, Muntianu Gabriela⁴⁰
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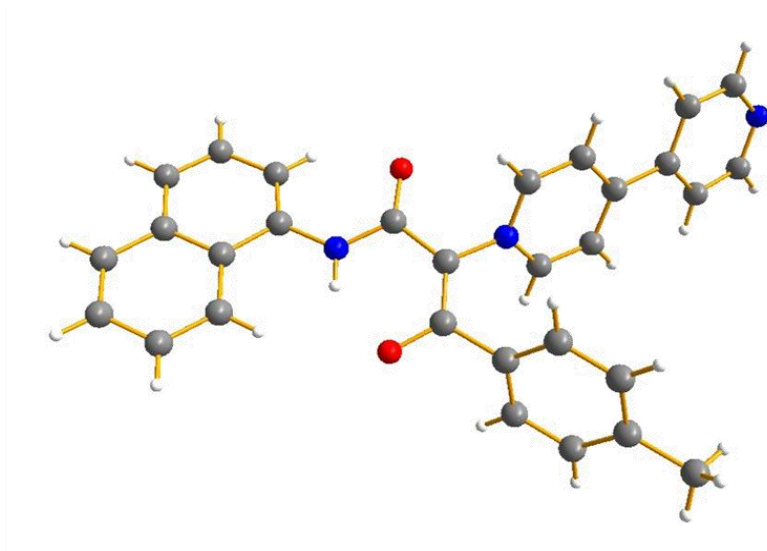
Legend

1. “Alexandru Ioan Cuza” University, Faculty of Chemistry, Iasi, Romania
 2. “Gheorghe Asachi” Technical University, Faculty of Mechanical Engineering, Iasi, Romania
 3. Romanian Academy, The Institute of Macromolecular Chemistry "Petru Poni", Iasi
 4. “Danube” University Faculty of Science and Environment, Department of Chemistry, Physics and Environmental, Galati
 5. "Apollonia" University, Iasi
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 12. Electrical Engineering Department, Technological Educational Institute of Crete, Greece
 13. Hellenic Electricity Distribution Network Operator S.A.
 14. “Gheorghe Asachi” Technical University, Hydrotechnics, Geodesy and Environmental Engineering Faculty, Iasi
 15. “Gr. T. Popa” University of Medicine and Pharmacy, Faculty of Medical Bioengineering
 16. “Apollonia” University of Iasi, Faculty of Dentistry
 17. “Alexandru Ioan Cuza” University, Faculty of Physics, Iasi
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26. Toxicological Center, Department of Pharmaceutical Sciences, University of Antwerp, Belgium
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 28. Center of Materials Technology and Laser, School of Applied Technology, Electrical Engineering Department, Technological Educational Institute of Crete, Heraklion, Greece
 29. “Lucian Blaga” University of Sibiu, Department of Industrial Machines and Equipments, Sibiu, Romania
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 37. Laboratory of Analytical Chemistry and Biopolymer Structure, University of Konstanz, Germany
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Special thanks to our sponsors





XRD structure obtained by using SUPERNOVA 250 Single crystal X-ray diffractometer with dual source from CERNESIM center.
