

Ph. D. Lecturer **Condurache-Bota Simona**



CURRICULUM VITAE

Personal Information			
Name		CONDURACHE-BOTA SIMONA	
Address (es)		No. 5, Stiintei Street, 800146, town: Galati, county: Galati, Romania	
Phone (s)		0336/112657	Mobile: 0744390832
E-mail (s)		scondurache@ugal.ro	
Nationality		Romanian	
Date and place of birth		March, the 27 th , 1974, town: Braila, Romania	
Civil Status		Married, 2 children	
Name before marriage		Bota Simona	
Fields of competence		- Optics, Microscopy - Spectroscopy - Lasers - Semiconductor Physics - Environmental Science	
Education and formation			
Period		<p>2002 - 2012 Ph. D. in Physics subdomain: Solid State Physics – Physics of semiconductors, within the Ph. D. School of the Faculty of Physics, Alexandru Ioan Cuza University of Iasi (3 years maternity leave of absence); scientific coordinator: Ph. D. Prof. Gheorghe Rusu, thesis title: <i>Contributions to the study of the electrical and optical properties of some heterostructures based upon semiconducting oxides</i>, qualificative: VERY WELL, distinction: CUM LAUDAE</p> <p>2005 – 2009 Law Science studies at the Faculty of Law and Public Administration, Spiru Haret University of Bucharest, Law Science specialty, 4 years of study, long distance studies, Galati Territorial Center</p> <p>2002 – linguistic certificate in English at the Dunarea de Jos University of Galati, maximum score</p> <p>August 2001 – promotion of the exam as definitive professor in the secondary educational system; average grade: 9.37 (from maximum 10)</p> <p>1997 - 1998 Cambridge courses – advanced level, at the International Language Center, Soros Foundation, Iasi, Romania</p>	

	<p>1997 – 1999 M. Sc. in Physics (1.5 years of studies) at the Faculty of Physics, Alexandru Ioan Cuza University of Iasi, Romania, specialty: Optics, Spectroscopy and Lasers, thesis title: <i>Confocal microscopy with laser sources; dispersion measurements</i>; scientific coordinators: Ph. D. Eng. Wim P. de Boeij and Ph. D. Prof. M. Delibas; average grade at the M. Sc. final exam: 9.00; average grade of the M. Sc. studies: 10.00</p> <p>1992 – 1997 B. Sc. in Physics (5 years of study) at the Faculty of Physics, Alexandru Ioan Cuza University of Iasi, Romania, specialty: Optics and Spectroscopy; praiseworthy B. Sc. diploma, average grade at the B. Sc. final exam: 10.00; average grade of the B. Sc. studies: 9.87</p> <p>1988 – 1992 theoretical high-school (presently the National College) Vasile Alecsandri from Galati, Romania, specialty: Mathematics and Physics; Chief of graduate series</p>
Qualification / Diploma – last obtained title	Ph. D. in Physics
Professional Experience	
Period	<p>1.10.2012 – now Ph. D. Lecturer at the Faculty of Sciences and Environment, Chemistry, Physics and Environment Department, Dunarea de Jos University of Galati, Romania;</p> <p>1.10.2005 – 30.09.2012 Assistant Professor at the Faculty of Sciences and Environment, Dunarea de Jos University of Galati, Romania;</p> <p>1.10.2002 – 30.09.2005 Graduate University Assistant at the Faculty of Sciences and Environment, Dunarea de Jos University of Galati, Romania</p> <p>1.06.2001 – 30.09.2002 Physics teacher at the <i>Radu Negru</i> Industrial High School from Galati, Romania;</p> <p>1.09.2001 – 30.06.2002 Physics teacher at the Regional Center for young people capable of performances (Excellence Center) of the School Inspectorate from Galati, Romania;</p> <p>1.09.2000 – 31.05.2001 Physics teacher at the <i>Vasile Alecsandri</i> National College from Galati, Romania;</p> <p>1.03.1999 – 31.08.2000 Physics teacher at the Railway transportation Industrial High School from Galati, Romania;</p> <p>1.10.1997 – 31.01.1998 Associated Graduate University Assistant at the Faculty of Physics from the <i>Alexandru Ioan Cuza</i> University of Iasi, Romania, in parallel with the M. Sc. studies;</p> <p>1.09.1997 – 30.09. 1997 <i>Radu Negru</i> Industrial High School from Galati, Romania</p>
Occupation or Position held in present	Ph. D. Lecturer
Affiliation / Employer	Dunarea de Jos University of Galati, Romania, Faculty of Sciences and Environment, Chemistry, Physics and Environment Department

Main activities and responsibilities	<ul style="list-style-type: none"> - teaching classes of: <ul style="list-style-type: none"> a). <i>Methods of spectral analysis</i> for the students in the 3rd year of study from the Environmental Science specialty, the Faculty of Sciences and Environment; b). <i>Atmosphere and Air Quality</i> for the students in the 3rd year of study from the Ecology and Environment Protection, Food Science and Engineering Faculty. -teaching laboratory/applicative classes and seminars of: <i>General Physics, Biophysics, Solid State and Semiconductor Physics, Spectroscopy, Atmosphere and Air Quality, Meteorology</i> for students from several faculties and specialties: the Faculty of Sciences and Environment, the Faculty of Naval Architecture, the Faculty of Mechanics, the Faculty of Medicine, Pharmacy and Dental Medicine; -student guidance for scientific communication sessions within The Physics Department of the Faculty of Sciences and Environment, Dunarea de Jos University of Galati, Romania; -student guidance for their B. Sc. papers in Physics or Environmental Science, respectively; -elaboration of reports about the scientific activity of The Physics Department from the Faculty of Sciences (called now The Faculty of Sciences and Environment); -secretarial activities within the commissions of B. Sc. and M. Sc. final exams within The Physics Department of the Faculty of Sciences and Environment (formerly named: The Faculty of Sciences), Dunarea de Jos University of Galati, Romania; -timetable elaboration for the specialties of the Faculty of Sciences; -elaboration of advertising materials and effective advertising the B. Sc. and M. Sc. study programs of the Faculty of Sciences from the Dunarea de Jos University of Galati, Romania.
Professional achievements	<ul style="list-style-type: none"> - passing the exams as professor in ordinary and as definitive professor in the secondary educational system - passing the admission exams as Graduate University Assistant, as Assistant Professor and as Lecturer at the Physics Department from the Faculty of Sciences (now named: Faculty of Sciences and Environment), at the Dunarea de Jos University of Galati, Romania - publication, as main author or as co-author (see details in Annex no. 1 at the CV): <ul style="list-style-type: none"> a). 14 scientific papers in publications with impact factor ISI (Thomson Reuters), with total personal impact factor: 2.53672; total personal relative score of influence of influence: 2.54545; b). 8 scientific papers in publications with B+/BDI rating (recognized in international databases); c). 8 books of laboratory classes and collection of problems for Higher Education and for admission at the University – Physics tests; d). 1 scientific paper in a B quoted publication; e). 7 scientific papers published in bulletins of international conferences and symposia f). 16 scientific papers published in bulletins of conferences and symposia with international participation g). 13 scientific papers published in bulletins of national conferences and symposia;

Professional achievements	<ul style="list-style-type: none"> - quotation in 18 scientific papers with impact factor ISI of a scientific paper published as co-author in the Journal of Non-Crystalline Solids in 2005 (see full list of quotations in Annex no. 2, attached to the CV) - participation as main author or co-author at more than 40 scientific papers presented orally or as posters – in plenum or on sections at 21 National, International or with international participation Conferences, Symposia, Seminars, Congresses and Workshops (see the detailed list in Annex no. 3, attached to the CV); - awarded by CNCSIS ((The National Council for Scientific Research in Higher Education) – for the results of scientific research published in 6 scientific papers with ISI impact factor, published in: 2008, 2009 and 2011, respectively; - scientific coordinator for the B. Sc. final research paper in the fields of Physics and Environmental Science (see the detailed list in Annex no. 4, attached to the CV); - guidance of students from several Faculties, with specialties such as: Physics, Environmental Science, Engineering (Food Science and Engineering, Computer Engineering, etc.) and of medical types (General Medicine, Dental Medicine, etc) at Scientific student Sessions on various interdisciplinary themes: Physics, Environment, Chemistry, Food Science, etc; some studies were awarded with local prizes (see the detailed list in Annex no. 5, attached to the CV); - scientific reviewer of 17 scientific papers in view of their publication in <i>The Annals of Dunarea de Jos University of Galati</i>, Mathematics, Physics, Theoretical Mechanics, Fascicle II, year I (XXXII) 2009 – publication recognized by CNCSIS (The National Council for Scientific Research in Higher Education), B category;
Member of professional associations:	<ul style="list-style-type: none"> - Romanian Physical Society; - European Physical Society; - Center for nanostructures and functional materials – CNMF, Dunarea de Jos University of Galati, Romania (untill 2010); - Center for physical-chemical and morpho-functional analysis and Chemometrics, Dunarea de Jos University of Galati, Romania.
Contract-based research-development projects	<p>Member in the teams of the following projects:</p> <p>i). 2006-2008 – member of the research team within the Excellence Project CEEEX no. 89/2006, Code MEC 1930: Preparation and characterization of thin, nanostructured, semiconductor films used for the fabrication of photovoltaic modules, of the Dunarea de Jos University of Galați, in partnership with the Alexandru Ioan Cuza University of Iasi, Romania; total value: 200 000 RON (approx. 46500 Euros); Project Manager: Ph. D. Prof. G. I. Rusu, Galati manager: Ph. D. Assoc. Prof. N. Tigau;</p> <p>ii). 2007-2008 – research member within the CNCSIS Project no. 680/2007: Realization of a technology for the preparation of nanostructured coatings type thermal and corrosion-proof barrier; Beneficiary: Dunarea de Jos University of Galati, value 198000 RON (approx. 46000 Euros); Project Manager: Ph. D. Prof. C. Gheorghies;</p> <p>iii). Project no. 03-4-1036-2001/2010 (RESEARCH PROJECT – 2010 JINR-Romania), theme: Nuclear and related analytical techniques for</p>

	<p><i>Environmental and Life Sciences</i>, Leaders Romania : Popescu Ion, Ene Antoaneta, Cucu-Man Simona, Todoran Radu; http://www.nipne.ro/international/cooperations/jinr_sc.php; http://www.nipne.ro/international/cooperations/docs/Projects_list_nov2009.doc</p> <p>iv). COST - ES1005 Project: <i>Towards a more complete assessment of the impact of solar variability on the Earth's climate</i>, Romanian manager: Ph. D. Assoc. Prof. M. Voiculescu; http://www.cost.eu/domains_actions/essem/Actions/ES1005</p> <p>v). National Project type IDEAS: PN-II-ID-PCE-2011-3-0709, no. 283/2011: <i>SOLar Activity and Clouds: causal or casual Effect</i>, Ph. D. Assoc. Prof. M. Voiculescu</p>
Other achievements / Prizes	<ul style="list-style-type: none"> - inclusion in the top 20 eligible candidates for the prize named: <i>Professor of the year 2010</i>, category: <i>Higher education</i>, from the 2010 Gala of prizes for the Education, granted by the <i>Dinu Patriciu</i> Foundation, Romania; - inclusion in the <i>Who's who</i> World Encyclopedia for 2012.
Scientific preoccupations and fields of interest	<ul style="list-style-type: none"> - Environmental Science; - Meteorology and Climatology; - Optics and Spectroscopy of the Atmosphere, liquids and of solid state materials; - Thin film deposition (metals and semiconductors) by thermal evaporation in vacuum and by PLD – pulsed laser deposition; - thermal oxidation in air of thin metallic films; - thermal treatment, UV treatment and combined UV + thermal treatment of thin solid films; - structural and morphological characterization of thin solid films through: XRD, SEM+EDAX, TEM, AFM; - optical measurements and optical characterization of thin films, computation of optical parameters, applying of several models for optical parameters: Tauc, Cauchy, Sellmeier, Didomenico, etc. - electrical measurements on thin films.
Other scientific preoccupations:	<ul style="list-style-type: none"> - Spectroscopy (organic and inorganic solids and liquids) - Ultrashort lasers - Confocal Microscopy - Air pollution, Noise pollution
Supplementary Information	<p>- Specialization abroad:</p> <p>1.02.1998 – 1.09.1998 M. Sc. studies within the <i>Ultrafast Lasers and Spectroscopy Laboratory</i> from the RijksUniversiteit of Groningen, The Netherlands, being the beneficiary of a 6 months scholarship granted by the European Physical Society, Mulhouse, France; scientific coordinator: Dr. Eng. Wim P. De Boeij</p>
Personal skills and competences	Canto, Foreign languages, Piano playing

Native language	Romanian
Other known language (s)	English – proficient French – good Italian – beginner Spanish – beginner German - beginner
Organizational skills and competences	<ul style="list-style-type: none"> - organizational spirit and leadership aptitudes; - member in the organization committees and co-chairman of the National Conferences with international participation of the Physics Department from the Faculty of Sciences (today: Faculty of Sciences and Environment) from the Dunarea de Jos University of Galati, Romania; - secretary and/or member of the commissions for the B. Sc. and M. Sc. final exams within the Physics Department from the Faculty of Sciences from the Dunarea de Jos University of Galati, Romania.
Computer skills and competences	<ul style="list-style-type: none"> - proficient user of the following software: Windows, Microsoft Office (Word, Excel and PowerPoint), Origin, Micrografx Designer, Serif Photo Plus SE, Paint, Adobe Acrobat Reader; - experience in data acquisition and data processing, in finding the interdependence between data and in graphical representation of data; - experience in using the Internet: Internet Explorer, Mozilla Firefox, Google Chrome, Messenger, E-mail; - MATLAB programming – beginner level.
Social skills and competences	<ul style="list-style-type: none"> - experience in working within national and international teams (6 months scholarship within the Ultrafast Laser and Spectroscopy Laboratory from the Rijksuniversiteit of Groningen, The Netherlands); - very good oral and in writing communication skills and interrelationship - initiative spirit, tenacity in achieving the fixed purposes; - guidance of youth: students, children/pupils in school and out-of-school activities; - participation at the Global Campaign for Education 2011 – Education for girls and women, initiated by the Save the children organization within UNICEF.
Technical skills and competences	<ul style="list-style-type: none"> - mastery of implementing the techniques for structural and morphological analysis, for electrical, optical and spectral properties investigations for solids and liquids - mathematical modelling the relationship between different physical magnitudes characterizing solids and liquids
Driving licence	B category

CONDURACHE-BOTA SIMONA

ANNEX no. 1

COMPLETE LIST OF PUBLICATIONS

A. PH. D. DIPLOMA

2012: Ph. D. in Physics, subdomain: Solid State Physics – Physics of Semiconductors, Ph. D. School from the Faculty of Physics of the Alexandru Ioan Cuza University of Iasi, Romania; scientific coordinator: Ph. D. Prof. Gheorghe Rusu, thesis title: *Contributions to the study of the electrical and optical properties of some heterostructures based upon semiconducting oxides*,_qualificative: VERY WELL, distinction: CUM LAUDAE

B. BOOKS

1. **S. Condurache-Bota**, C. Gheorghies: „*Physics Problems for Higher Education* (in Romanian), „Ars Docendi Publishers, Bucharest, 2003, ISBN: 973-558-094-2, 221 pages.
2. A. Nat, A. Ene, C. Tudose, N. Velican, C. Gheorghies, V. Sahlean, P. Vieriu, N. Tigau, G. Murariu, E. Toma, L. Enache, **S. Condurache-Bota**: *Physics – tests – for High school Graduation and for Admission in Higher Education* (in Romanian), Dunarea de Jos University Foundation Publishers, Galati, 2003, ISBN: 973-627-024-6, 261 pages
3. **S. Condurache-Bota**, C. Gheorghies: „*Physics Problems for Higher Education – Revised and enriched Edition* (in Romanian), „Ars Docendi Publishers, Bucharest, 2003, ISBN: 973-558-128-0, 251 pages.
4. **S. Condurache-Bota**, *Laboratory experiments of Physics and Biophysics for the students of the Faculties of: Medicine, Pharmacy, Dental Medicine and Nurses* (in Romanian), Cermi Publishers, Iasi, 2010, ISBN: 978-973-667-392-4, 208 pages.
5. **S. Condurache-Bota**, *Laboratory experiments of General Physics* (in Romanian), Cermi Publishers, Iasi, 2011, ISBN: 978-973-667-371-9, 139 pages.
6. **S. Condurache-Bota**, *Laboratory experiments of Physics and Biophysics for the students of the Faculties with medical specialties* (in Romanian), Cermi Publishers, Iasi, Romania, 2011, ISBN: 978-973-667-405-1, 151 pages.
7. **S. Condurache-Bota**, *Laboratory experiments of General Physics. Revised and enlarged edition* (in Romanian), Cermi Publishers, Iasi, Romania, 2012, ISBN: 978-973-667-411-2, 130 pages.
8. A. Ene, N. Tigau, G. Murariu, **S. Condurache-Bota**, *Physics tests for admittance at Higher Education* (in Romanian), Galati University Press Publishers, 2012, 32 pages.

C. SCIENTIFIC PAPERS

C.1 Scientific papers published in publications with impact factor ISI (Thomson Reuters)

1. N. Tigau, C. Gheorghies, G. I. Rusu, **S. Condurache-Bota**, *The influence of post-deposition treatment on some physical properties of Sb₂S₃ thin films*, Journal of Non-Crystalline Solids, **351** (12-13), 987-992, 2005. [relative score of influence: 3.37184](#); [impact factor: 1.449](#)
2. C. Gheorghies, **S. Condurache-Bota**, *Practical Experience in Use of the Neutron Moisture Gauges*, Coal Preparation Journal, **26** (2), 91-102, 2006. [relative score of influence: 0.61324](#); [impact factor: 0.179](#)
3. C. Gheorghies, **S. Condurache-Bota**, M. Dinescu, C. C.escu, N. Cazacu, *New reinforcing technique of alumina coatings on steel substrates*, Optoelectronics and Advanced Materials Rapid Communications, **2** (9), 569 – 577, 2008. [relative score of influence: 0.31287](#); [impact factor: 0.451](#)

4. **S. Condurache-Bota**, G. I. Rusu, N. Tigau, R. Drasovean, C. Gheorghies, *Structural and optical characterization of thermally oxidized bismuth films*, Revue Roumaine de Chimie, **54**(3), 205–2, 2009. [relative score of influence: 0.12983](#); [impact factor: 0.262](#)
5. R. Drasovean, **S. Condurache-Bota**, *Structural characterization and optical properties of Co₃O₄ and CoO films*, J. Optoelectr. Adv. Mat., **11** (12), 2131 – 2134, 2009. [relative score of influence: 0.33626](#); [impact factor: 0.433](#)
6. **S. Condurache-Bota**, G. I. Rusu, N. Tigau, V. Nica, R. Drasovean, *Structural and optical analysis of superimposed bismuth and antimony oxides*, J. Optoelectr. Adv. Mat., **11**(12), 2149 – 2156, 2009. [relative score of influence: 0.33626](#); [impact factor: 0.433](#)
7. R. Drasovean, **S. Condurache-Bota**, *Influence of the conditions of the thermal treatment on the electrical properties of Cobalt oxide layers*, Revue Roumaine de Chimie, **54**(10), 827–831, 2009. [relative score of influence: 0.12983](#); [impact factor: 0.262](#)
8. **S. Condurache-Bota**, G. I. Rusu, N. Tigau, and L. Leontie, *Important physical parameters of Bi₂O₃ thin films found by applying several models for optical data*, Cryst. Res. Technol. **45** (5), 503 – 511, 2010. [relative score of influence: 0.88325](#); [impact factor: 0.921](#)
9. C. Gheorghies, **S. Condurache-Bota**, *Temperature correction for thickness measurements of hot rolled steel plates*, Journal of Iron and Steel Research International, **17** (12), 30-36, 2010. [relative score of influence: 0.53495](#); [impact factor: 0.201](#)
10. C. Oancea, C. Gheorghies, **S. Condurache-Bota**, *Complex analysis of the bells' sounds from the 'Saint Trinity' Cathedral from Alba Iulia*, European Journal of Science and Theology, September **2011**, Vol.7, No.3, 57-70, in Press; [without computed impact factor](#)
11. **S. Condurache-Bota**, N. Tigau, A. P. Rambu, G. G. Rusu, G. I. Rusu, *Optical and Electrical Properties of Thermally-Oxidized Bismuth Thin Films*, Applied Surface Science, **257**, 10545 – 10550 (2011); [relative score of influence: 1.37997](#); [impact factor: 1.793](#).
12. **S. Condurache-Bota**, R. Drasovean, N. Tigau, A. P. Rambu, *The influence of substrate temperature on the structure and on the optical reflection spectrum of bismuth thin films*, Revue Roumaine de Chimie, **56**(12), 1097–1102, 2011. [relative score of influence: 0.15269](#); [impact factor: 0.311](#).
13. G. Murariu, **S. Condurache-Bota**, *Polynomial fitting approach for the Kramers - Kronig method for Optical Properties Computing for Bi₂O₃ fabric*, International Journal of Modern Physics B, Febr. 2012, [relative score of influence: 0.3340](#); [impact factor: 0.860](#)
14. G. Murariu, **S. Condurache-Bota**, *Temperature dependence of the optical properties of Bi₂O₃. A theoretical approach based on the Kramers-Kronig transformation for polynomial mixed terms models*, Central European Journal of Physics, Ref.: Ms. No. CEJP-D-12-00081R2, accepted on August, the 27th, 2012, DOI: 10.2478/s11534-012-0124-x, [relative score of influence: 0.48498](#); [impact factor: 0.909](#).

TOTAL impact factor: **8.46400**

TOTAL personal impact factor: **2.53672**

TOTAL relative score of influence: **8.67860**

TOTAL personal relative score of influence: **2.54545**

Hirsch Index: 2

C.2 Scientific papers published in publications quoted B and B+ (recognized by International Databases)

1. **S. Condurache-Bota**, N. Tigau, D. O. Dorohoi, *UV-VIS-NIR spectral analysis of the degradation of fresh fruits juices*, The Annals of the “Dunarea de Jos” University of Galati, Mathematics, Physics, Chemistry, Informatics, Fascicle II, Supplement, Year III (XXXII) 2009, 52-60, oral presentation at the Scientific Workshop Session, organized within the Doctoral School of Applied Sciences, Galati, June 4th-5th, 2009, financed through the project called: „System for the management of the scholarships granted to Ph. D. students - SIMBAD”, Contract POSDRU/6/1.5/S/1 – publication rated B

2. C. Oancea, C. Gheorghies, **S. Condurache-Bota**, *Comparative analysis of bell sounds from several Romanian orthodox monasteries and churches*, Journal of Science and Arts, Year 10, No. 1(12), pp. 199-204, 2010 – publication rated B+
3. **S. Condurache-Bota**, N. Tigau, R. Drasovean, *Explicit application of Swanepoel's method for the analysis of Sb_2O_3 films*, Journal of Science and Arts, Year 10, No. 2 (13), pp. 325-330, 2010 – publication rated B+
4. N. Tigau, **S. Condurache-Bota**, R. Drasovean, *Investigation of optical properties of Sb_2S_3 thin films*, Journal of Science and Arts, Year 10, No. 2 (13), pp. 347-350, 2010 - publication rated B+
5. R. Drasovean, **S. Condurache-Bota**, N. Tigau, *Structural and electrical characterization of cobalt oxide semiconductors*, Journal of Science and Arts, Year 10, No. 2 (13), pp. 367-372, 2010 - publication rated B+
6. **S. Condurache-Bota**, C. Constantinescu, G. I. Rusu, N. Tigau, A. M. Cantaragiu, *Oxidized bismuth films deposited by PLD with and without RF*, Annals of "Dunarea de Jos" University of Galati, Mathematics, Physics, Theoretical Mechanics, Fascicle II, year II (XXXIII), No.2, p. 206-211, 2010. - publication rated B+
7. N. Tigau, **S. Condurache-Bota**, R. Drasovean, *Temperature dependence of electrical conductivity of vacuum evaporated antimony trioxide thin films*, Annals of "Dunarea de Jos" University of Galati, Mathematics, Physics, Theoretical Mechanics, Fascicle II, year II (XXXIII), No.2, p. 212-215, 2010. - publication rated B+;
8. **S. Condurache-Bota**, G. I. Rusu, N. Tigau, G. Prodan, R. Gavrilă, *Detailed structural and morphological analysis of thermally oxidized bismuth thin films*, Annals of "Dunarea de Jos" University of Galati, Mathematics, Physics, Theoretical Mechanics, Fascicle II, year III (XXXIV), No. 1, p. 21-28, 2011 – publication rated B+.
9. N. Tigau, **S. Condurache-Bota**, *Optical constants of ZnSe thin films deposited by thermal evaporation technique*, Annals of "Dunarea de Jos" University of Galati, Mathematics, Physics, Theoretical Mechanics, Fascicle II, year III (XXXIV), No. 1, p. 40-45, 2011 – publication rated B+.

TOTAL personal score from BDI publications: **0.515**

C.3 Scientific papers published in bulletins of international symposia and conferences

1. N. Tigau, G. I. Rusu, C. Gheorghies, **S. Condurache-Bota**: *The influence of the postdeposition treatment on the electrical and optical properties of Sb_2O_3 thin films*, Proceedings of CONCIM 2003, 8-12 Aprilie, **2003**, Bonn, Germania – poster
2. C. Gheorghies, L. Gheorghies, **S. Condurache-Bota**: *Experimental conditions in preparation of chromia coatings*, Proceedings of The Coatings, 5-7th of April **2004**, Erlangen, Germania– poster
3. C. Gheorghies, M. Modiga, **S. Condurache-Bota**, *The influence of the structure on the damage process through corrosion of some heat exchangers*, Proceedings of the 29th Annual ARA Congress, University of Applied Sciences from Bochum, 7-12th of September **2004**, Bochum, Germania – poster
4. C. Gheorghies, **S. Condurache-Bota**, L. Gheorghies, *Decreasing the irradiation level during coke moisture measurements inside a furnace at iron-steel plants*, Proceedings of IRPA Regional Congress for Central and Eastern Europe, 24–28th of September **2007**, Brasov, Romania– poster presentation
5. S. Gosav, **S. Bota-Condurache**, I. Dumitrascu, L. Dumitrascu, D. O. Dorohoi, *Point Groups in Molecular Symmetry*, XVIII International School-Seminar "Spectroscopy of Molecules and Crystals", September **2007**, Beregove, Crimea, Ukraine – oral presentation
6. R. Drasovean, **S. Condurache-Bota**, *Structural characterization and optical properties of Co_3O_4 and CoO films*, 4th International Conference on Amorphous and Nanostructured Chalcogenides – Fundamentals and Applications, ANC-4, 29th of June – 3rd of July 2009, Constanta, Romania, poster presentation
7. **S. Condurache-Bota**, G. I. Rusu, N. Tigau, V. Nica, R. Drasovean, *Structural and optical analysis of superimposed bismuth and antimony oxides*, 4th International Conference on Amorphous and Nanostructured Chalcogenides – Fundamentals and Applications, ANC-4, 29th of June – 3rd of July, Constanta, Romania, poster presentation

C.4 Scientific papers published in bulletins of symposia and conferences with international participations

1. **S. Condurache-Bota**, G. I. Rusu, N. Tigau, C. Gheorghies, *Incipient structural and optical analysis of thermally oxidized bismuth thin films*, Proc. of The 8th International Conference on Physics of Advanced Materials, ICPAM-8, 4-7th of June **2008**, Iasi, Romania
2. R. Drasovean, **S. Condurache-Bota**, *Influence of the thermal treatment on the electrical properties of cobalt oxide layers*, Proc. of The International Conference of Physical Chemistry ROMPHYSICHEM 13, 3-5th of September **2008**, Bucharest, Romania
3. **S. Condurache-Bota**, G. I. Rusu, N. Tigau, R. Drasovean, C. Gheorghies, *Structural and optical characterization of thermally oxidized bismuth thin films*, Proc. of The International Conference of Physical Chemistry ROMPHYSICHEM 13, 3-5th of September **2008**, Bucharest, Romania
4. D. Mihailescu, C. Gheorghies, A. Mihailescu, **S. Condurache-Bota**, P. Alexandru, *The influence of the pressure on the thermally-influenced areas during the dry hyperbaric welding*, Proc. of The 8th International Conference of Technology and Quality for Sustained Development TQSD'08, 30-31st of October **2008**, Bucharest, Romania
5. C. Gheorghies, **S. Condurache-Bota**, V. Paunoiu, L. Gheorghies, *Structural changes of the stainless steel caused by a pitting-type of corrosion*, Proc. of The 8th International Conference of Technology and Quality for Sustained Development TQSD'08, 30-31st of October **2008**, Bucharest, Romania
6. **S. Condurache-Bota**, G. I. Rusu, N. Tigau, *Detailed computation of optical features for vacuum-deposited thin films of bismuth trioxide*, The Annals of the "Dunarea de Jos" University of Galati, Fascicle II - Mathematics, Physics, Chemistry, Informatics (CD-ROM), year III (XXXII) 2009, 72-79, poster presentation at the 1st International Symposium on Applied Physics - Materials Science, Environment and Health, (ISAP-1), 28-29th of November 2009, Galati, Romania
7. **S. Condurache-Bota**, C. Gheorghies, A. P. Rambu, A. M. Cantaragiu, *Estimation of the mean grain size from the XRD spectrum. Several methods*, The Annals of the "Dunarea de Jos" University of Galati, Fascicle II - Mathematics, Physics, Chemistry, Informatics (CD-ROM), year III (XXXII) 2009, 79-87, poster presentation at the 1st International Symposium on Applied Physics - Materials Science, Environment and Health, (ISAP-1), 28-29th of November 2009, Galati, Romania
8. N. Tigau, **S. Condurache-Bota**, C. Gheorghies, R. Drasovean, *Structure and optical constants of Antimony trioxide thin films*, The Annals of the "Dunarea de Jos" University of Galati, Fascicle II - Mathematics, Physics, Chemistry, Informatics (CD-ROM), year III (XXXII) 2009, 400-405, oral presentation at the 1st International Symposium on Applied Physics - Materials Science, Environment and Health, (ISAP-1), 28-29th of November 2009, Galati, Romania
9. C. B. Zelinschi, C. F. Dascalu, **S. Condurache-Bota**, D. O. Dorohoi, *Electro-optical parameters of some uniax inorganic crystals*, The Annals of the "Dunarea de Jos" University of Galati, Fascicle II - Mathematics, Physics, Chemistry, Informatics (CD-ROM), year III (XXXII) 2009, 270-275, poster presentation at the 1st International Symposium on Applied Physics - Materials Science, Environment and Health, (ISAP-1), 28-29th of November 2009, Galati, Romania
10. **S. Condurache-Bota**, N. Tigau, R. Drasovean, *Combined UV and thermal treatment influence on the structural and on the optical properties of some bismuth thin films*, 11th International Balkan Workshop on Applied Physics, IBWAP 2010 Constanta, Romania
11. G. Murariu, **S. Condurache-Bota**, L. Moraru, N. Tigau, *Comparative characterization of optical proprieties for Bi_2O_3* , 11th International Balkan Workshop on Applied Physics, IBWAP 2010 Constanta, ROMANIA
12. R. Drasovean, S. Gosav, **S. Condurache-Bota**, N. Tigau, *Influence of annealing on the crystallinity and optical properties of cobalt oxide nanocomposite films*, 11th International Balkan Workshop on Applied Physics, IBWAP 2010 Constanta, Romania
13. N. Tigau, **S. Condurache-Bota**, R. Drasovean, *Antimony trioxide thin films deposed by vacuum evaporation method*, 11th International Balkan Workshop on Applied Physics, IBWAP 2010 Constanta, Romania

14. **S. Condurache-Bota**, R. Drasovean, N. Tigau, A. P. Rambu, *The influence of substrate temperature on the structure and on the optical reflection spectrum of bismuth thin films*, 14th International Conference of Physical Chemistry - ROMPHYSICHEM 14, Bucharest, Romania, 2010
15. R. Drasovean, **S. Condurache-Bota**, *Optical characterization of cobalt oxide doped silica nanocomposite films*, 14th International Conference of Physical Chemistry - ROMPHYSICHEM 14, Bucharest, Romania, 2010
16. **S. Condurache-Bota**, G. Murariu, N. Tigau, *A comparative approach for optical characterization for Bi₂O₃ thin films*, 14th International Conference of Physical Chemistry - ROMPHYSICHEM 14, Bucharest, Romania, 2010

C. 5 Scientific papers published in bulletins of national symposia and conferences

1. C. Gheorghies, **S. Condurache-Bota**, L. Gheorghies, *Study of the sensitivity of an eddy currents transducer*, The Annals of "Dunarea de Jos" University of Galati, Fasc. II, year XXI, 2003, p. 141-145
2. C. Gheorghies, V. Paunoiu, D. Nicoara, **S. Condurache-Bota**, *Stress states in some heat exchanger plates*, The Annual Symposium of the Institute of Solid Mechanics SISOM, Bucharest, 20-21st of May **2004**
3. M. Dulcescu, D. O. Dorohoi, **S. Condurache-Bota**, *Reflection and refraction phenomena at quartz interfaces*, National Conference of Applied Physics, "Dunarea de Jos" University, Galati, 3-4th of June **2005**
4. D. O. Dorohoi, **S. Condurache-Bota**, *The polarization status of the optical radiation in reflexion and refraction processes* (in Romanian: *Starea de polarizare a radiațiilor optice în procesele de reflexie și refracție*), Teaching methods Section, "Stefan Procopiu" Inter-county Symposium, 15th edition, Piatra Neamt, 21st of January **2006**
5. **S. Condurache-Bota**, C. Gheorghies, D. O. Dorohoi: *Measurements of glass dispersion properties using a Michelson interferometer*, The 3rd National Conference on Applied Physics, "Dunarea de Jos" University, Galati, 15-16th of June **2007**
6. C. Gheorghies, A. M. Cantaragiu, L. Gheorghies, I.V. Stasi, C. Oancea, **S. Condurache-Bota**, *Analysis of Silica Trace by XRD Method*, The Annals of "Dunarea de Jos" University of Galati, Fascicle II, Mathematics, Physics, Chemistry, Informatics, New Series, Year I (XXX) **2007**, ISSN 1842-6506, pp. 54-57, oral presentation
7. C. Gheorghies, A. M. Cantaragiu, L. Gheorghies, I. V. Stasi, **S. Condurache-Bota**, *Evaluation of residual austenite by XRD technique*, The 3rd National Conference on Applied Physics, "Dunarea de Jos" University, Galati, 15-16th of June **2007**
8. C. Gheorghies, A. M. Cantaragiu, L. Gheorghies, I. V. Stasi, I. Costache, **S. Condurache-Bota**, *Analysis of textures by using partial pole figures*, The 3rd National Conference on Applied Physics, "Dunarea de Jos" University, Galati, 15-16th of June **2007**
9. C. Gheorghies, D. O. Dorohoi, A. M. Cantaragiu, L. Gheorghies, I. V. Stasi, **S. Condurache-Bota**, *The identification of crystalline phases by X-ray diffraction*, The 3rd National Conference on Applied Physics, "Dunarea de Jos" University, Galati, 15-16th of June **2007**
10. G. Condurache-Bota, V. Isaia, M. Praisler, **S. Condurache-Bota**, *Institutional evaluation. Optimizing the activity of the Quality Assurance Commission*, The 3rd National Conference on Applied Physics, "Dunarea de Jos" University, Galati, 15-16th of June **2007**
11. C. Gheorghies, L. Gheorghies, **S. Condurache-Bota**, N. Cananau, *Nondestructive methods used in analysis of surface and superficial layer of metallic materials*, The advanced technologies and materials UGALMAT, "Dunarea de Jos" University, Galati, 19-20th of October **2007**
12. **S. Condurache-Bota**, G. I. Rusu, N. Tigau, *Optical properties of bismuth-bismuth oxide sandwich structures obtained by thermal oxidation of bismuth thin films*, Proceedings of The 4th National Conference on Applied Physics, Faculty of Sciences, "Dunarea de Jos" University, Galati, 25th of September **2008**
13. **S. Condurache-Bota**, G. I. Rusu, N. Tigau, C. Gheorghies, *Structural characterization of thermally-oxidized bismuth thin films*, Proceedings of The 4th National Conference on Applied Physics, Faculty of Sciences, "Dunarea de Jos" University, Galati, 25th of September **2008**

QUOTATIONS of the scientific papers with impact factor ISI (Thomson Reuters)

1. The scientific paper: N. Tigau, C. Gheorghies, G. I. Rusu, **S. Condurache-Bota**, *The influence of post-deposition treatment on some physical properties of Sb₂S₃ thin films*, Journal of Non-Crystalline Solids, **351 (12-13)**, 987-992 (2005)

is quoted in:

1.1 F. Perales, G Lifante, F Agulló-Rueda and C. de las Heras, *Optical and structural properties in the amorphous to polycrystalline transition in Sb₂S₃ thin films*, J. Phys. D: Appl. Phys. **40(8)**, 2440 (2007). **Impact Factor: 2.200; Relative score of influence: 1.9133**

<http://iopscience.iop.org/0022-3727/40/8/005;jsessionid=54D60551615B6EF1B9BF4DD8CD0ADB54.c1>

1.2 Nalin, M., Poirier, G., Ribeiro, S.J.L., Messaddeq, Y., Cescato, L., *Glasses in the SbPO₄-WO₃ system*, Journal of Non-Crystalline Solids, **353 (16-17)**, 1592-1597 (2007). **Impact Factor: 1.319; Relative score of influence: 4.31224**

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1.3 S. A. Manolache, A. Duta, *The Development of Crystalline Sb₂S₃ Thin Films as A Component of The Three-Dimensional (3D) Solar Cells*, Romanian Journal of Information Science and Technology, **11(2)**, 109-121 (2008). **Impact Factor: 1.329; Relative score of influence: 0.11098**

http://www.imt.ro/romjist/Volum11/Number11_2/pdf/02-Manolache.pdf

1.4 Perales, F., Agulló-Rueda, F., Lamela, J., De Las Heras, C., *Optical and structural properties of Sb₂S₃/MgF₂ multilayers for laser applications*, Journal of Physics D: Applied Physics **41 (4)**, 045403 (2008). **Impact Factor: 2.104; Relative score of influence: 1.9133**

1.5 Bharathi Mohan, D., Philip, A., Sunandana, C.S., *Iodization of antimony thin films: XRD, SEM and optical studies of nanostructured SbI₃*, Vacuum **82 (6)**, 561-565 (2008). **Impact Factor: 1.114; Relative score of influence: 0.75054**

<http://www.scopus.com/results/citedbyresults.url?sort=plf-f&cite=2-s2.0-17644402097&src=s&imp=t&sid=ImIvbHJdT4xsF892R5LYddD%3a30&sot=cite&sdt=a&sl=0&origin=inward&txGid=ImIvbHJdT4xsF892R5LYddD%3a2>

1.6 Krishnan, B., Arato, A., Cardenas, E., Roy, T.K.D., Castillo, G.A., *On the structure, morphology, and optical properties of chemical bath deposited Sb₂S₃ thin films*, Applied Surface Science, **254 (10)**, 3200-3206 (2008). **Impact Factor: 1.576; Relative score of influence: 1.36118**

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1.7 El-Sayad, E.A., *Compositional dependence of the optical properties of amorphous Sb₂Se₃-xSx thin films*, Journal of Non-Crystalline Solids, **354 (32)**, 3806-3811 (2008). **Impact Factor: 1.449; Relative score of influence: 4.31224**

<http://www.scopus.com/results/citedbyresults.url?sort=plf-f&cite=2-s2.0-17644402097&src=s&imp=t&sid=ImIvbHJdT4xsF892R5LYddD%3a30&sot=cite&sdt=a&sl=0&origin=inward&txGid=ImIvbHJdT4xsF892R5LYddD%3a2>

1.8 E. A. El-Sayad, A. M. Moustafa, S. Y. Marzouk, *Effect of heat treatment on the structural and optical properties of amorphous Sb₂Se₃ and Sb₂Se₂S thin films*, Physica B: Condensed Matter **404 (8-11)**, 1119-1127 (2009). **Impact Factor: 1.056; Relative score of influence: 0.61001**

1.9 R. Naik, R. Ganesan, K. V. Adarsh, K. S. Sangunni, V. Takats, S. Kokenyesi, *Light and heat induced interdiffusion in Sb/As₂S₃ nano-multilayered film*, Journal of Non-Crystalline Solids, **355 (37-42)**, 1939-1942 (2009). **Impact Factor: 1.483; Relative score of influence: 4.31224**

1.10 N. Jessy Mathew, R. Oommen, P. Usha Rajalakshmi, *Optical and electrical studies on thermally evaporated Sb₂S₃ thin films*, Chalcogenide Letters **7(12)**, 701-706 (2010). **Impact**

- Factor: 0.835; Relative score of influence: 0.37419;
http://www.chalcogen.infim.ro/701_Mathew.pdf
- 1.11 A. U. Ubale, V.P. Deshpande, Y.P. Shinde, D.P. Gulwade, *Electrical, optical and structural properties of nanostructured Sb₂S₃ thin films deposited by cbd technique*, Chalcogenide Letters **7(1)**, 101 – 109 (2010); Impact Factor: 0.835; Relative score of influence: 0.37419;
http://www.chalcogen.infim.ro/101_Ubale.pdf
- 1.12 R. Oommen, N.Jessy Mathew, P. Usha Rajalakshmi, *Structural and morphological studies of Sb₂S₃ thin films*, Journal of Ovonic Research **6 (6)**, 259-266 (2010); Impact Factor: 0.632; Relative score of influence: 0; http://www.chalcogen.infim.ro/259_Oommen.pdf
- 1.13 D. Kieven, A. Grimm, I. Lauermann, T. Rissom, and R. Klenk, *Band alignment at Sb₂S₃/Cu(In,Ga)Se₂ heterojunctions and electronic characteristics of solar cell devices based on them*, Applied Physics Letters, **96(26)**, Electronic transport and semiconductors (2010). Impact Factor: 3.82; Relative score of influence: 2.95560
- 1.14 Zhu, G.-Q., Huang, X.-J., Feng, B., Ge, B., Bian, X.-B., *Growth of Sb₂S₃ thin films directed by OTS self-assembled monolayer and its formation mechanism*, Chinese Journal of Inorganic Chemistry **26 (11)**, 2041-2046 (2010); Impact Factor: 2.851; Relative score of influence: 0.15116
<http://www.scopus.com/record/display.url?eid=2-s2.0-78149337887&origin=resultslist&sort=plf-f&cite=2-s2.0-17644402097&src=s&imp=t&sid=zyTLbFM8iQEesdT7ey823AS%3a30&sot=cite&sdt=a&sl=0&relpos=3&relpos=3&searchTerm=>
- 1.15 Gangqiang Zhu, Xijin Huang, Mirabbos Hojamberdiev, Peng Liu, Yun Liu, Gunqiang Tan and Jian-ping Zhou, *Preparation of Sb₂S₃ film on functional organic self-assembled monolayers by chemical bath deposition*, Journal of Materials Science, **46 (3)**, 700-706 (2010). DOI: 10.1007/s10853-010-4797-5 Impact Factor: 1.859; Relative score of influence: 1.19140
<http://www.springerlink.com/content/l70014116700870q/>
- 1.16 Kępińska, M., Nowak, M., Duka, P., Kotyczka-Morańska, M., Szperlich, P., *Optical properties of SbI₃ single crystalline platelets*, Optical Materials **33(11)**, 1753 – 1759 (2011). Impact Factor: 1.678; Relative score of influence: 1.66032
- 1.17 Dantus, C., Rusu, R. S., Rusu, G. I., *On the mechanism of electronic transport in polycrystalline CdO thin films*, Superlattices and Microstructures **50(4)**, 303-310 (2011). Impact Factor: 1.091; Relative score of influence: 0.86308
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- 1.18 Liu, C. P., Wang, H. E., Ng, T. W., Chen, Z. H., Zhang, W. F., Yan, C., Tang, Y. B., Bello, I., Martinu, L., Zhang, W. J., Jha, S. K., *Hybrid photovoltaic cells based on ZnO/Sb₂S₃/P3HT heterojunctions*, PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS **249(3)**, 627-633 DOI: 10.1002/pssb.201147393 (2012). Impact Factor: 1.349; Relative score of influence: 0.93862
http://apps.webofknowledge.com/summary.do?product=UA&search_mode=CitingArticles&qid=2&SID=Y22JjEInHjcbGChOc6&page=3

2. The scientific paper: C. Gheorghies, S. Condurache-Bota, M. Dinescu, C. Constantinescu, N. Cazacu, *New reinforcing technique of alumina coatings on steel substrates*, Optoelectronics and Advanced Materials – Rapid Communications **2**, 569, (2008)

is quoted in:

C. Constantinescu, H. Gavrilă, *FeSi thin films developed by pulsed laser deposition*, U.P.B. Sci. Bull., Series B, **73(2)**, (2011), ISSN 1454-2331
http://www.scientificbulletin.upb.ro/rev_docs/arhiva/full68769.pdf

ANNEX no. 3

PARTICIPATIONS AT NATIONAL AND INTERNATIONAL SCIENTIFIC CONFERENCES, CONGRESSES, SYMPOSIA and WORKSHOPS

1. Conference on Non-Crystalline Inorganic Materials CONCIM 2003, 8-12th of April **2003**, Bonn, Germany; organized by the Collaborative Research Center SFB 408 "Inorganic Solids without Translational Symmetry"

International Advisory Board: Jeff Brinker, Albuquerque, USA; Richard Catlow, London, GB; Bernard Champagnon, Villeurbanne, France; Martin Jansen, Stuttgart, Germany; Rainer Kranold, Rostock, Germany; Yoshio Waseda, Sendai, Japan

with the poster presented paper, no. B 17:

"THE INFLUENCE OF POST-DEPOSITION TREATMENT ON SOME PHYSICAL PROPERTIES OF Sb₂S₃ THIN FILMS", authors: N. Tigau, C. Gheorghies, D. Toma, G. I. Rusu,

S. Condurache-Bota

<http://www.concim2003.uni-bonn.de/>

2. 4th International Conference "THE COATINGS", Erlangen, Germany, April 05-07, 2004, *with the paper*: "EXPERIMENTAL CONDITIONS IN PREPARATION OF CHROMIA COATINGS", authors: C. Gheorghies, L. Gheorghies, **S. Condurache-Bota**: - oral presentation

3. The 29th Annual ARA - American Romanian Academy of Arts and Sciences Congress, September 7-12 2004, Bochum, Germany, organized by The American Romanian Academy of Arts and Sciences, *with the paper*:

"THE INFLUENCE OF THE STRUCTURE ON THE DAMAGE PROCESS THROUGH CORROSION OF SOME HEAT EXCHANGERS", authors: C. Gheorghies, M. Modiga, **S.**

Condurache-Bota

4. Annual Symposium of the Institute for Solids Mechanics (in Romanian) - SISOM 20-21 May 2004, Bucharest

with the paper: "STRESS STATES IN SOME HEAT EXCHANGER PLATES", authors: C. Gheorghies, V. Paunoiu, D. Nicoara, **S. Condurache-Bota** – oral presentation

http://www.imsar.ro/Sisom_2004.pdf

5. "Stefan Procopiu" Inter-county Symposium – the 15th edition, 21st of January 2006, with:

- *Praiseworthy diploma* pentru participarea la Sectiunea Metodica;

- *scientific paper*: "THE POLARIZATION STATUS OF THE OPTICAL RADIATION IN THE REFLECTION AND REFRACTION PROCESSES" (in Romanian: "STAREA DE POLARIZARE A RADIATIILOR OPTICE ÎN PROCESELE DE REFLEXIE SI REFRACTIE"), author: **S. Condurache-Bota**

6. The 3rd National Conference on Applied Physics, June 15-16th, 2007, Galati, Romania; organizers: Romanian Ministry of Education and Research; "Dunarea de Jos" University of Galati, Department of Physics; Romanian Physics Society,

Participation with the following scientific papers:

6.1 "ANALYSIS OF THE SUPERFICIAL LAYER OF MATERIALS BY X-RAYS DIFFRACTION METHOD", authors: C. Gheorghies, I. Crudu, I. I. Stefanescu, L. Palaghian, V. Musat, L. Gheorghies, N. Tigau, N. Cananau, S. Macuța, V. Paunoiu, D. Scarpete, M. Simionov, D. Nicoara, M. Modiga, M. Hapenciuc, L. Deleanu, I. Barsan, G. Andrei, C. Maier, A. Epureanu, G. Fetecau, L. Moraru, A. Doniga, P. Alexandru, A. Ivanescu, G. Carac, L. Benea, D. Toma, M

- Thompson, C. Spanu, C. Fetecau, S. Levcovici, S. Ciortan, O. Mitoseriu, D. Dima, O. Dima, **S. Bota-Condurache**, N. Diaconu, F. Stan, M Rapa, S. Boiciuc. – prezentare în plen;
- 6.2 “INSTITUTIONAL EVALUATION OPTIMIZING THE ACTIVITY OF THE QUALITY ASSURANCE COMMISSION”, authors: G. Condurache Bota, V. Isaia, M.Praisler, **S. Condurache Bota** – poster presentation
- 6.3 “MEASUREMENTS OF GLASS DISPERSION PROPERTIES USING A MICHELSON INTERFEROMETER”, authors: **S. Condurache-Bota**, C. Gheorghies, D. O. Dorohoi – poster presentation;
- 6.4 “EVALUATION OF RESIDUAL AUSTENITE BY XRD TECHNIQUE”, authors: C. Gheorghies, A.M. Cantaragiu, L.Gheorghies, **S. Condurache-Bota**, I. V. Stasi – poster presentation;
- <http://www.phys.ugal.ro/Conferinta2007/PROGRAM.htm>
- 7. IRPA Regional Congress for Central and Eastern Europe**, 24 – 28th of September 2007, Brasov, Romania
with the paper:
 “Decreasing the Irradiation Level during Coke Moisture Measurements inside a furnace at Iron-Steel Plants”, authors: Gheorghies C., **Condurache-Bota S.**, Gheorghies L. – poster presentation
- 8. XVIII International School-Seminar “Spectroscopy of Molecules and Crystals”**, September, 2007, Beregove, Crimea, Ukraine
with the paper: ”POINT GROUPS IN MOLECULAR SYMMETRY,,
 authors: S. Gosav, **S. Bota-Condurache**, I. Dumitrascu, L. Dumitrascu, D.O. Dorohoi - – poster presentation
- 9. Scientific Conferences for Technologies and Advanced Materials** (in Romanian) - **UGALMAT 2007**, 19 – 20th of October 2007, Galati, Romania
with the paper:
 “NONDESTRUCTIVE METHODS USED IN THE ANALYSIS OF THE SURFACE AND OF THE SUPERFICIAL LAYER”, authors: C. Gheorghies, L. Gheorghies, **S. Condurache-Bota**, N. Cananau – poster presentation
- 10. Workshop: “Introduction to Confocal Raman and Scanning Probe Microscopy”**, Cluj-Napoca, 5-6th of March 2008, organized by WITec, Ulm, Germania
<http://www.witec-instruments.de/en/eventsseminars/files/FlyerCluj08.pdf>
- 11. 8th International Conference on Physics of Advanced Materials (ICPAM-8)**, 4-7th of June 2008, Iasi, Romania
with the paper:
 “INCIPIENT STRUCTURAL AND OPTICAL ANALYSIS OF THERMALLY OXIDIZED BISMUTH THIN FILMS”, authors: **S. Condurache-Bota**, G. I. Rusu, N. Tigau, C. Gheorghies - – poster presentation
- 12. The International Conference of Physical Chemistry ROMPHYSCHEM-13**, 3-5th of September 2008, Bucharest, Romania; *organizers:* Institute of Physical Chemistry “Ilie Murgulescu” of the Romanian Academy; Department of Physical Chemistry, Faculty of Chemistry, University of Bucharest; Romanian Chemical Society, Section of Physical Chemistry
with the papers:
 12.1 “STRUCTURAL AND OPTICAL CHARACTERIZATION OF THERMALLY OXIDIZED BISMUTH THIN FILMS”, authors: **S. Condurache-Bota**, G. I. Rusu, N. Tigau, R. Drasovean and C. Gheorghies – poster presentation

12.2 “INFLUENCE OF THE THERMAL TREATMENT ON THE ELECTRICAL PROPERTIES OF COBALT OXIDE LAYERS”, authors: R. Drasovean, **S. Condurache-Bota** – poster presentation
<http://gw-chimie.math.unibuc.ro/romphyschem13/participants.php>

13. **NATIONAL CONFERENCE ON APPLIED PHYSICS, 4th Edition**, Jubilee Edition: 60 years of Higher Education in Galati, 25-26th of September 2008, Galati, Romania:

- *co-chairman* at the section: “SECTION 4. CONDENSED MATTER PHYSICS AND ADVANCED MATERIALS TECHNOLOGY”;

- *scientific papers presented as posters*:

13.1 “OPTICAL PROPERTIES OF BISMUTH-BISMUTH OXIDE SANDWICH STRUCTURES OBTAINED BY THERMAL OXIDATION OF BISMUTH THIN FILMS”, authors: **S. Condurache-Bota**, G. I. Rusu, N. Tigau (position no. S2.P7);

13.2 “STRUCTURAL CHARACTERIZATION OF THERMALLY-OXIDIZED BISMUTH THIN FILMS”, authors: **S. Condurache-Bota**, G. I. Rusu, N. Tigau, C. Gheorghies (position no. S4.P6);

<http://www.phys.ugal.ro/Conference2008/accepted%20abstracts.htm>

14. **The 8th International Conference of Technology and Quality for Sustained Development TQSD'08**, 30-31st of October 2008, Bucharest, Romania, organized by: The Polytechnic University of Bucharest; Faculty of I.M.S.T., Materials Technology and Welding; De Montfort University, United Kingdom; Malta University, Malta; TEI Athens, Greece; University of Rennes, France Media partner: First International Service Agency SRL

with the scientific papers presented as posters:

14.1 “STRUCTURAL CHANGES OF THE STAINLESS STEEL CAUSED BY A PITTING-TYPE OF CORROSION”; authors: C. Gheorghies, **S. Condurache-Bota**, V. Paunoiu, L. Gheorghies

14.2 “THE INFLUENCE OF THE PRESSURE ON THE THERMALLY-INFLUENCED AREAS DURING THE DRY HYPERBARIC WELDING”, authors: D. Mihailescu, C. Gheorghies, A. Mihailescu, **S. Condurache-Bota**, P. Alexandru

<http://www.camis.pub.ro/tqsd08/programme.html>

15. **4th International Conference on Amorphous and Nanostructured Chalcogenides ANC-4**, 29th of June – 3rd of July 2009, Constanta, Romania

with the papers presented as posters:

15.1 “STRUCTURAL AND OPTICAL ANALYSIS OF SUPERIMPOSED BISMUTH AND ANTIMONY OXIDES”, authors: **S. Condurache-Bota**, G. I. Rusu, N. Tigau, V. Nica, R. Drasovean

15.2 “STRUCTURAL CHARACTERIZATION AND OPTICAL PROPERTIES OF Co₃O₄ AND CoO FILMS”, authors: R. DRASOVEAN, **S. Condurache-Bota**

16. **International Symposium on Applied Physics, Materials Science, Environment and Health, ISAP 1**, 1st Edition, November 28– 29th, 2009, Galati, Romania; organizers: Physics Department and Center for Physical-Chemical and Morpho-functional Analyses and Chemometry, FACULTY OF SCIENCES

– *member in the Organizational Committee*

– *participant with the scientific papers*:

16.1 “ESTIMATION OF THE MEAN GRAIN SIZE FROM THE XRD SPECTRUM. SEVERAL METHODS”, authors: **S. Condurache-Bota**, C. Gheorghies, A. P. Rambu, A. Cantaragiu (position no. S2.P21) – poster presentation;

16.2 “ELECTRO-OPTICAL PARAMETERS OF SOME UNIAX INORGANIC CRYSTALS”, authors: C.-B. Zelinschi, C.-F. Dascalu, **S. Condurache-Bota**, D.-O. Dorohoi (position no. S2.P9.) – poster presentation;

16.3 “INFLUENCE OF UV IRRADIATION ON THE STRUCTURAL AND OPTICAL PROPERTIES OF CdO FILMS”, authors: C. C. Dantus, G. G. Rusu, P. Rambu, **S. Condurache-Bota**, F. Iacomì (position no. S1.P10.) - poster presentation;

16.4 “SOME STRUCTURAL AND ELECTRICAL PROPERTIES OF ZnO THIN FILMS”, authors: A. P. Rambu, C. Dantus, **S. Condurache-Bota**, D. Sîrbu, G. I. Rusu (position no. S1.P8.) - poster presentation;

16.5 “DETAILED COMPUTATION OF OPTICAL FEATURES FOR VACUUM-DEPOSITED THIN FILMS OF BISMUTH TRIOXIDE” authors: **S. Condurache-Bota**, G. I. Rusu, N. Tigau, C. Gheorghies (position no. S1.O6) – oral presentation;

16.6 “THE EFFECT OF ANNEALING ON THE ELECTRICAL CONDUCTION OF AMORPHOUS Sb₂S₃ THIN FILMS”, authors: N. Tigau, **S. Condurache-Bota** (position no. S1.O5) – oral presentation;

16.7 “REFRACTIVE INDEX, OSCILLATOR PARAMETERS AND OPTICAL BAND GAP OF ANTIMONY TRISULFIDE THIN FILMS”, authors: N. Tigau, **S. Condurache-Bota** (position no. S1.O4.) – oral presentation;

16.8 “STRUCTURE AND OPTICAL CONSTANTS OF ANTIMONY TRIOXIDE THIN FILMS”, authors: N. Tigau, **S. Condurache-Bota**, C. Gheorghies (position no. S1.O3.) – oral presentation;

http://www.phys.ugal.ro/Conference2009/Program_ISAP1_GALATI_2009-FF.pdf

17. The 2nd National Conference of “Applied Sciences in the study of the environment and of the Materials” (in Romanian), with international participation, 28-30th of April 2010, Targoviste, Romania

with the following scientific papers presented as posters:

17.1 “EXPLICIT APPLICATION OF SWANEPOEL’S METHOD FOR THE ANALYSIS OF Sb₂O₃ THIN FILMS”, authors: **S. Condurache-Bota**, N. Tigau, R. Drasovean

17.2 “COMPARATIVE ANALYSIS OF BELL SOUNDS FROM SEVERAL ROMANIAN ORTHODOX MONASTERIES AND CHURCHES” , authors: C. Oancea, C. Gheorghies, **S. Condurache-Bota**;

17.3 “STRUCTURAL AND ELECTRICAL CHARACTERIZATION OF COBALT OXIDE SEMICONDUCTORS”, authors: R. Drasovean, **S. Condurache-Bota**, N. Tigau;

18. The International Conference of Physical Chemistry ROMPHYSICHEM-14, 2-4th of June 2010 Bucharest, Romania; *organizers:* Institute of Physical Chemistry “Ilie Murgulescu” of the Romanian Academy; Department of Physical Chemistry, Faculty of Chemistry, University of Bucharest; Alpha Association;

with the following scientific papers presented as posters:

18.1 “THE INFLUENCE OF SUBSTRATE TEMPERATURE ON THE STRUCTURE AND ON THE OPTICAL REFLECTION SPECTRUM OF BISMUTH THIN FILMS”, authors: **S. Condurache-Bota**, R. Drasovean and A. P. Rambu;

18.2 “OPTICAL CHARACTERIZATION OF COBALT OXIDE DOPED SILICA NANOCOMPOSITE FILMS”, authors: R. Drasovean, **S. Condurache-Bota**

18.3 “A COMPARATIVE APPROACH FOR OPTICAL CHARACTERIZATION FOR Bi₂O₃”, authors: G. Murariu, **S. Condurache-Bota**, N. Tigau

<http://web.icf.ro/romphyschem/index.php/registered-participants14>

19. 11th International Balkan Workshop on Applied Physics – IBWAP11, 7th - 9th of June 2010, Constanta, Romania

with the following scientific papers presented as posters:

19.1 “COMBINED UV AND THERMAL TREATMENT INFLUENCE ON THE STRUCTURAL AND OPTICAL PROPERTIES OF SOME BISMUTH THIN FILMS”, authors: **S. Condurache-Bota**, N. Tigau, R. Drasovean and S. Gosav;

19.2 “ANTIMONY TRIOXIDE THIN FILMS DEPOSED BY VACUUM EVAPORATION METHOD”, authors: N. Tigau, **S. Condurache-Bota**, R. Drasovean and S. Gosav;
19.3 “INFLUENCE OF ANNEALING ON THE CRYSTALLINITY AND OPTICAL PROPERTIES OF COBALT OXIDE NANOCOMPOSITE FILMS”, authors: R. Drasovean and S. Gosav, **S. Condurache-Bota**, N. Tigau;
19.4 “TEMPERATURE DEPENDENCE OF OPTICAL PROPERTIES FOR Bi₂O₃”, authors: G. Murariu, **S. Condurache-Bota**;
19.5 “COMPARATIVE CHARACTERIZATION OF OPTICAL PROPERTIES FOR Bi₂O₃”, authors: G. Murariu, **S. Condurache-Bota**;
<http://www.univ-ovidius.ro/ibwap2010/home.htm>

20. **4th BBC SWS International Conference on SOLAR AND HELIOSPHERIC INFLUENCES ON THE GEOSPACE**, 1st -5th of October 2012, Bucharest, Romania, 7th Section: *Middle and lower atmosphere long-term variability / Climate change*, with the following scientific paper presented as poster:
20.1 *Assessing the correlation between cloud types and the interplanetary magnetic field*, authors: **S. Condurache-Bota**, M. Voiculescu
http://www.geodin.ro/CONFERENCE2012/index_html_files/The%204th%20Balkans_f.pdf

21. **9th EUROPEAN SPACE WEATHER WEEK**, 5th -9th of November 2012, Brussels, Belgium, 3rd Section: *Solar Variability Effects on Climate*, with the following scientific paper presented as poster:
21.1 *Is cloud cover modulation related to the interplanetary magnetic field?*, authors: **S. Condurache-Bota**, M. Voiculescu, I. G. Usoskin.
<http://sidc.oma.be/esww9/program/poster3A.php>

ANNEX no. 4

B. Sc. Thesis Titles with S. Condurache-Bota as scientific coordinator

Crt. No.	Student Name	Thesis title (in Romanian)
1.	Ispas (Frentescu) Iulia Elena	<i>Spectral analysis of some pigments used in Painting</i>
2.	Murat Corneliu Bogdan	<i>Atmospheric pollution – legislation and monitoring</i>
3.	Grigorescu Paul	<i>Natural disasters management</i>
4.	Lungu Andreea	<i>Waste management</i>
5.	Mitu Andreia	<i>Water monitoring in Romania</i>
6.	Marin Alexandru	<i>Auto transportation and its impact on the environment</i>
7.	Balan Ioana Alexandra	<i>The impact of the volcanic activity on the environment</i>
8.	Simion Carmen-Lavinia	<i>The solar radiation and its influence on Earth</i>

STUDENTS GUIDANCE AT STUDENT SCIENTIFIC SESSIONS

1. Students scientific session of the Faculty of Sciences, Dunarea de Jos University of Galati, Romania, 22nd of May 2008

- i. *Measurements of some physical properties of some fluids used in Medicine*; students: Munteanu Cristina, Macrescu (Gheorghiu) Camelia, Faculty of Medicine and Pharmacy, 1st year of study;
- ii. *Semiconducting diode: performance, characteristics, applications*; students: Botas Alexandru Ionut, Gavrilescu Ciprian, Automatics and Computer Science Faculty, 1st year of study; **4th Prize**;
- iii. *Thermal radiation. Checking and simulation of the laws of thermal radiation*; student: Fuica Claudiu, Bostan George, Automatics and Computer Science Faculty, 1st year of study.

2. Students scientific session of the Faculty of Sciences, Dunarea de Jos University of Galati, Romania, May 2009

- i. *Spectral analysis of unbecoming food oils*; students: Huiban Mirela; Borsan Vasilica - Food Science and Engineering Faculty, 1st year of study; **2nd prize**;
- ii. *The study of the nuclear radiation absorption within plants*; students: Popa Cristina; Valeanu Mihai – Food Science and Engineering Faculty, 1st year of study;
- iii. *Detectors based on bipolar transistors and on electromagnetic relays*, students: Dutu Elena; Marica Cristian – Faculty of Computer Science, 1st year of study;
- iv. *The study by optical transmission of the degradation of some fruits and vegetables juices*, student: Ilie Oana - Food Science and Engineering Faculty, 1st year of study.

3. Students scientific session of the Faculty of Sciences, Dunarea de Jos University of Galati, Romania, 20th of May 2010

Crt. No.	Paper title	Student names	Faculty, year of study	Prize
1.	<i>Measurements of some physical properties for different types of alcoholic drinks</i>	Roman Mioara Purcarea Diana	Food Science and Engineering Faculty, 1 st year of study	-
2.	<i>Measurements of some physical properties for different types of wines</i>	Olaru Gabriela Caluian Valentina		2 nd prize
3.	<i>Measurements of some physical properties for different types of beer</i>	Teleoaca Daniela Bunga Mirela		3 rd prize
4.	<i>Measurements of some physical properties for different types of not-acidified commercial juices</i>	Lupu Victor Oceanu Iulia		-
5.	<i>Measurements of some physical properties for different types of aromas used in pastry</i>	Gheorghita Oana Pacala Mihaela		-
6.	<i>Solar radiation. Insolation. Monitoring</i>	Tiplica Oana Filip Andra	Faculty of Sciences and Environment, 1 st year of study	4 th prize
7.	<i>Weather prognosis. Graphics</i>	Chirnoaga Oana Rapotan Cosima		-
8.	<i>Crystalline structure of minerals</i>	Tuchila Florina Pintilie Valentina		-
9.	<i>The study of the nuclear radiation absorption within different sorts of vegetables</i>	Niculaide Daniela Simion Carmen		-
10.	<i>Clouds and cloud cover: monitoring</i>	Stanciu Alexandru Virgolici George		-
11.	<i>Weather instruments</i>	Peiu Paul Stoian Doru		-
12.	<i>Noise pollution</i>	Vlase Sorin Oanca Alexandru		1 st prize

4. Students scientific session of the Faculty of Sciences, Dunarea de Jos University of Galati, Romania, 19th of May 2011

i. Physical properties of the perfumes

Students: Geru Aurelia, Opria Nicoleta Alina, Food Science and Engineering Faculty, 1st year of study

ii. Physical properties of some sorts of honey

Students: Chiritoiu Mihaela, Iftene Andreea, Food Science and Engineering Faculty, 1st year of study

iii. Spectral study of some pigments used in Paintings

Student: Ispas (Frentescu) Iulia Elena, Science and Environment Faculty, Physics Informatics, 3rd year of study

5. Students scientific session of the Faculty of Sciences and Environment, Dunarea de Jos University of Galati, Romania,

Section: Applied Physics and Environmental Science, 23rd of May 2012

Crt. No.	Paper title	Students name	Faculty, year of study	Prizes
1.	<i>Spectral analysis of some food dyes</i>	Manza Florentina Bratuleanu Andreea	Food Science and Engineering Faculty, 1 st year of study	-
2.	<i>The study of some physical properties of different sorts of milk</i>	Surdu Elena Cotîrlet Madalina		-
3.	<i>The specific rotatory power of fruit juices</i>	Balanuta Madalina		-
4.	<i>Current – Voltage characteristics of semiconducting diodes</i>	Enache Nicolaie	Faculty of Automatics, Computer Science and Electrical and Electronical Engineering, 1 st year of study	1st Prize
5.	<i>Atmospheric pollution – legislation and monitoring</i>	Murat Corneliu Bogdan	Faculty of Sciences and Environment, 3 rd year of study	-
6.	<i>Natural and anthropogenic disaster management</i>	Grigoroscutea Paul		-
7.	<i>Waste management</i>	Lungu Andreea		-
8.	<i>Water monitoring in Romania</i>	Mitu Andreia		-
9.	<i>The impact of transportation on the environment</i>	Marin Alexandru		-