

DR. ȘTEFAN ANDREI SZOBOTKA (1949 - 2013)



On the morning of May 24, 2013, our beloved colleague and friend Istvan (Ștefan) passed away, after a long and unjust suffering, in "Sf. Ioan" hospital in Bucharest. Until his last moment, he hoped for alleviation of his suffering and for full recovery, wishing to put his personal affairs in order and go on with his work in the research institute. Unfortunately, it was not to be, the disease defeating him, eventually.

He was born on October 18, 1949, in Timisoara, in a family of intellectuals - his father was an architect and a sculptor, and his mother was a lyrical artist. Ștefan started elementary school in Bucharest (1963-1967) and went on to the Hungarian high school, where he graduated with a baccalauréat degree. A passion for Earth sciences led him to attend the Technical School of Geology (1968-1970), and, after military service, he studied (1972-1977), at the University of Bucharest, and received his BS in Geology.

Upon graduation, he was hired, by government decision, by the Geological Prospecting Enterprise for Solid Mineral Substances (currently, SC "Prospecțiuni" SA). From September 1977 to April 1983, he worked at the Department of Geochemical Prospecting, as a prospector.

In the fall of 1983, he changed jobs and started working at the Institute of Geology and Geophysics (now, the Geological Institute of Romania), as a scientific researcher and, then, as a senior scientific researcher, at the Laboratory of Marine Geology and Sedimentology (LGMS), led by Prof. Nicolae Panin. In 1985, Prof. Panin recommended him for a Soviet oceanographic expedition to study the North Pacific polymetallic nodules, in the Clarion-Clipperton fracture zone. For five months, he lived intensely aboard "Acad A. Karpinsky" research vessel and thus fulfilled his childhood dream: to see the ocean and explore its mysteries hidden in the depths!

This journey helped crystallise his thoughts for the doctoral dissertation.

LGMS became a "research institute of national interest" – at first, the Romanian Centre for Marine Geology and Geoecology (1993-1994), and, afterwards, the National Research and Development Institute for Marine Geology and Geoecology (GeoEcoMar); the research was diversified, several national and international projects were implemented and thus, the researcher Ștefan Szobotka showed strong commitment to his work, putting his skills to full use, either as a regular member of the team or as a project - or theme - manager. Ștefan proved true managerial skills; he was tactful, friendly, affectionate, sentient and had a brilliant sense of humor. Well-educated and refined, Ștefan had lots of expertise and was dexterous – presumably, an inheritance from his paternal grandfather, an armourer in the old Austro-Hungarian army.

He specialized in geochemistry, sedimentology and sedimentary petrography. In the academic year 1986-1987, he taught sedimentary petrology, as an assistant, associated to the Department of Mineralogy/University of Bucharest, and coordinated students' practical work. In 1990, he became a PhD student, passed the preliminary examinations (1992), wrote the required specialty papers (1994) and, in 1998, he publicly defended his thesis called "Petrological and geochemical studies of abyssal sediments of the Central Pacific, with special attention to polymetallic nodules" ("Studiul petrologic și geochimic al sedimentelor abisale din zona centrală a Oceanului Pacific, cu privire specială asupra nodurilor polimetali"). Thereon, Ștefan Szobotka became the only qualified Romanian researcher in the field; he took part in conferences, at the Geological Institute of Romania, at the Enterprise for Geological Prospecting and Exploration/

IPEG "Harghita" (in Miercurea Ciuc), and taught students from the Faculty of Geology and Geophysics, at the University of Bucharest.

He was a member of the Geological Society of Romania, a member of the Scientific Council at GeoEcoMar, and the recipient of "Grigore Cobălcescu" Prize of the Romanian Academy.

Ștefan was a man of character, particularly affable, to those close to him; he was a man of his word, the perfect teammate, he showed respect for other people's opinion, and, when supporting his own views, he had strong arguments. His undisguised, open way made him loved and respected. Passionate about water and boats of all kinds, he thoroughly prepared the annual expeditions on the Danube and the Danube Delta (particularly, its main branches), attentive to details and, especially, careful to build a harmonious team governed by understanding and mutual respect. He suffered

when he witnessed or heard about unpleasant scenes, unable to see why the enjoyable time we spent together, as a team, may be overshadowed by pride and meaningless claims. He would not offend anybody and did not bear grudge; yet, he developed a three-point evaluation system: the persons who accumulated all the three points were blackballed from among those he generously trusted!

Ștefan's disappearance leaves a void in our hearts.

May his blue eyes and his smile be there forever, on endless waterways and roads, surrounded by a halo wreath of white flowers, swaying on the seawaves for eternal remembering!

ACKNOWLEDGEMENTS

The author takes this opportunity to thank Dr. Sorin-Corneliu Rădan for substantial improvement of the List of Publications.

Titus BRUSTUR

Laboratory of Marine Geology and Sedimentology, GeoEcoMar

PUBLICATIONS (IN EXTENSO & ABSTRACTS); SCIENTIFIC PAPER PRESENTATIONS

- ANASTASIU, N., ALEXANDRESCU, GR., **SZOBOTKA, ȘT.** (1984) – *Petrografia rudite-lor senoniene din flișul de Hangu (Carpații Orientali) - reconstituire de paleosurse*. St. Cerc. Geol., Geofiz., Geogr., Geologie, **28**: 92-101, București.
- ANASTASIU, N., **SZOBOTKA, ȘT.**, IORDACHE, L., ȘTEFAN, M. (1987) – *Petrofaciesuri și morfofaciesuri în pietrișurile de Cindești*. St. Cerc. Geol., Geofiz., Geogr., Geologie, **32**: 79-89, București.
- IONESCU, J., **SZOBOTKA, ȘT.**, PANIN N. (1988) – *Studiul izotopilor ⁸⁷Sr/⁸⁶Sr în nodulii polimetaliici*. Bul. Inf. Inst. Metale Rare, Kutna Hora, Cehoslovacia.
- JIPA, D., RYER, TH. A., UNGUREANU, C., RYER, M., **SZOBOTKA, ȘT.** (1992) – *Un model facial al depozitelor fluviale cu sedimentare laterală*, 76-78. In: *Lucrările celui de-al IV-lea Simpozion "Proveniența și effluența aluviunilor"* (Coord.: I. Ichim, M. Rădoane, N. Rădoane), Piatra Neamț, 264p.
- OAIE, GH., **SZOBOTKA, ȘT.**, RĂDAN, S., RĂDAN, S.C. (1994) – *Monitoring geoecologic în cadrul macrosistemului Dunăre-Delta Dunării prin metode geologice, geochimice și geofizice*. A III-a Sesiune științifică de referate și comunicări «Rezervația Biosferei Delta Dunării»/Annual scientific symposium of the «Danube Delta» Institute, Tulcea, 24-26 mai 1994.
- RĂDAN, S.C., RĂDAN, M., RĂDAN, S., MIHĂILESCU, N., OAIE, GH., **SZOBOTKA, ȘT.** (1994) – *Magnetic susceptibility as geoecological indicator in the environmental context of the Danube - Danube Delta macrosystem* (abstract). New Trends in Geomagnetism - IV Bienn. Meet. on Palaeomag., Rock Mag. and Databases Usage, Castle of Trest', South Moravia, Czech Rep, Sept. 5-10, 1994, Abstracts, p. 16.
- OAIE, GH., **SZOBOTKA, ȘT.**, SECRIERU, D., RĂDAN, M., RĂDAN, S., RĂDAN, S.C. (1995) – *Monitoring geoecologic în cadrul macrosistemului Dunăre - Delta Dunării prin metode geologice, geochimice și geofizice*. Analele științ. Inst. «Delta Dunării» 1994, **III/2**: 335-346, Tulcea.
- RĂDAN, S.C., RĂDAN, M., RĂDAN, S., GHENEA, C., MIHĂILESCU, N., OAIE, GH., **SZOBOTKA, ȘT.** (1995) – *Magnetic signature of past and recent environmental changes recorded in Pleistocene deposits and modern sediments* (abstract). Inter. Union Quater. Res. (INQUA), XIV Int. Congr., August 3-10, 1995, Berlin, Germany, *Terra Nostra*.
- OAIE, GH., **SZOBOTKA, ȘT.**, RUZSA, G., DOVLETE, C., COMAN, M. (1996) – *Geochronology and distribution of pollutants in barrage lake Iron Gates I (Romanian River Danube sector)*. An. Inst. Geol. Rom., **69/1**: 149-150, Bucharest.
- RĂDAN, S.C., RĂDAN, M., RĂDAN, S., OAIE, GH., **SZOBOTKA, ȘT.**, MIHĂILESCU, N. (1996) – *Magnetic susceptibility as rock magnetic marker of pollution in the Danube-Danube Delta environment* (abstract). Europ. Geophys. Soc. (EGS), XXI Gen. Assem., 6-10 May 1996, The Hague, The Netherlands, *Annales Geophysicae*, **14**, Suppl. I, Part I: C146, Springer International.
- SZOBOTKA, ȘT.**, OAIE, GH., CRAIU, C., MIHĂILĂ, E., RĂDAN, S., RĂDAN, M., RĂDAN, S.C. (1996) – *Noi date obținute prin metode geologice, geofizice și geochimice integrate monitoringului geoecologic aplicat în sistemul Dunăre-Delta Dunării*. Analele științ. Inst. Cerc. Proiect «Delta Dunării», 1995, **IV/2**: 61-72, Tulcea.
- OAIE, GH., **SZOBOTKA, ȘT.** (1997) – *Modern sedimentary processes and pollutants distribution in the Iron Gates I barrage lake*. International

- Symposium: Geology in the Danube Gorges, Donji Milanovac (Yugoslavia).
- OAIE, GH., **SZOBOTKA, ȘT.**, STĂNICĂ, A. (1997) – *Environmental state of the Danube River in 1996*. Geo-Eco-Marina, **2**: 149-162, București - Constanța.
- DULIU, O.G., TUFAN, M.S., **SZOBOTKA, ȘT.** (1997) – *Computer axial tomography investigation of polymetallic nodules*. Marine Geology, **138/3-4**: 303-311, Amsterdam.
- RĂDAN, M., RĂDAN, S.C., RĂDAN, S., **SZOBOTKA, ȘT.**, OAIE GH. (1997) – *Monitoring prin susceptibilitate magnetică (faza 1995) în sistemul Dunăre-Delta Dunării; semnificații geoecologice*. 2 - Dunărea. Analele științ. Inst. Cerc. Proiect. «Delta Dunării», 1996, **V/2**: 89-104, Tulcea.
- DANIELESCU-CHIRLOMEZ, C., OAIE, GH., **SZOBOTKA, ȘT.**, STĂNICĂ, A. (1998) – *The pollutants (nutrients, heavy metals) discharge of the Danube River into the Black Sea basin*. Symposium I – Environmental aspects of exploration, production and transportation of oil and gas in and through the Black Sea. Abstract volume, 11 p., Varna.
- OAIE, GH., **SZOBOTKA, ȘT.**, STĂNICĂ, A. (1998) – *Heavy metals and bottom sediments of the Danube River. Comparison 1995-1996*. "AQUAR-OM 98" Conference, Abstract volume: 8-10, Galați.
- OAIE, GH., **SZOBOTKA, ȘT.**, SECRIERU, D., STĂNICĂ, A., SOARE, R. (1998) – *Pollutant impact of the Danube River on the Black Sea basin*. XVth IAS Congress, Abstract volume: 584-585, Alicante (Spain).
- OAIE, GH., **SZOBOTKA, ȘT.**, STĂNICĂ, A., GROSU, A., FULGA, C., OPREANU, G., RUZSA, G., PESTREA, S. (1998) – *Environmental assessment of the River Danube between 1995 and 1997*. In: Proceedings of the International Workshop "Continental Margins and Sea Level Changes", Tescani, Romania, Oct. 6 -12, 1997, Geo-Eco-Marina, **3**: 89-94. București-Constanța.
- RĂDAN, M., RĂDAN, S.C., RĂDAN, S., OAIE, GH., **SZOBOTKA, ȘT.** (1998) – *Magnetic susceptibility monitoring along the Danube River Romanian course: geoecological significances* (abstract). 23rd Europ. Geophys. Soc. (EGS), Gen. Assem., 20-24 April, 1998, Nice, France, Annales Geophysicae, **16**, Suppl. I, Part I: C218.
- RĂDAN, S.C., RĂDAN, M., RĂDAN, S., GANCIU, A., OAIE, GH., **SZOBOTKA, ȘT.** (1998) – *Magnetic susceptibility monitoring in the Danube River - Danube Delta - western Black Sea system; environmental significances*. Geologica Carpathica, **49/3**: 239-241, Slovak Acad. Press Ltd., Bratislava.
- OAIE, GH., SECRIERU, D., **SZOBOTKA, ȘT.**, STĂNICĂ, A., SOARE, R. (1999) – *Pollution state of sediments dredged from the Sulina distributary and their influence to the Danube Delta Front Area*. In: Proceedings of International Workshop on "Modern and Ancient Sedimentary Environments and Processes", Moeciu, Romania, Oct. 8-15, 1998, Geo-Eco-Marina, **4**: 37-41. București-Constanța.
- OAIE, GH., **SZOBOTKA, ȘT.**, STĂNICĂ, A., STRECHIE, C., CRAIU, C., GROSU, A., MIHAILĂ, E. (1999) – *Environmental state of the Iron Gates I dam lake between 1995-1998*. ECO-CONFERENCE '99 – Environmental protection of urban and suburban settlements. Novi Sad (Yugoslavia).
- OAIE, GH., STRECHIE, C., **SZOBOTKA, ȘT.**, RĂDAN, S.C. (2000) – *Environmental assessment and sediment quality from Porțile de Fier I Dam lake (Romanian sector of the Danube River)*. 3rd Int. Conf. Balk. Environ. Assoc. (B.En.A.), Transboundary Pollution, 23-26 Nov., 2000, Abstracts: 324-325, Bucharest, Romania.
- OLARIU, C., **SZOBOTKA, ȘT.**, FULGA, C., MIHAILĂ, E. (2000) – *Sedimentological aspects at the river mouth zone in Iron Gate Dam Lake*. Rev. Roum. Géologie, Romanian Academy, **44**: 123-136, București.
- RĂDAN, S.C., RĂDAN, S., RĂDAN, M., GANCIU, A., **SZOBOTKA, ȘT.**, OAIE, GH. (2000) – *Magnetic signature of sedimentary environments in fluvial-marine interaction zones. A case study: Danube-Black Sea* (abstract). Europ. Geophys. Soc., 25th Gen. Assem. 25-29 April, 2000, Nice, France, Geophys. Res. Abstracts, **2**: 201 (CD-ROM version).
- OAIE, GH., SECRIERU, D., **SZOBOTKA, ȘT.**, STĂNICĂ, A., SOARE, R. (2001) – *Pollutant inputs from the sediments dredged from the Sulina Distributary (Danube River) onto the Black Sea shelf*. In: "Treatment 2000" Proceedings of the Balkanic Environmental Association Symposium, May 2001, Istanbul, Turkey (Summary).
- RIZESCU, C.T., GEORGESCU, G.N., DULIU, O.G., **SZOBOTKA, ȘT.** (2001) – *3D dual gamma-ray computer axial tomography investigation of polymetallic nodules*. Deep Sea Res., Part. I - Oceanographic Research Paper, **48/11**: 2529-2540.
- MELINTE, M.C., JIPA D., RĂDAN, S., BRUSTUR, T., **SZOBOTKA, ȘT.A.** (2002a) – *The K/T boundary event in the Romanian Carpathians*. Proceedings of the XVIIth Carpatho - Balkan Geological Association Congress, Bratislava, September 1st-4th 2002, Geologica Carpathica, **53**, Special issue: 34-39.
- MELINTE, M., BRUSTUR, T., **SZOBOTKA, ȘT.**, FURTUNĂ, C., PAVEL, A., ȘIȚARU, G. (2002b) – *Dâmbovicioara - Rucăr - Bran, a Geopark in the heart of the Romanian Carpathians*. Proceedings of the XVIIth Carpatho - Balkan Geological Association Congress, Bratislava, September 1st-4th 2002, Geologica Carpathica, **53**, Special issue: 7-11.
- MELINTE, M., BRUSTUR, T., PAVEL, A., **SZOBOTKA, ȘT.**, FURTUNĂ, C., ȘIȚARU, GH. (2002c) – *Valorificarea capitalului natural al României în relație cu cel socio-economic. Studiu de caz: arealul Geoparcului Dâmbovicioara - Rucăr - Bran*. Volumul Sesiunii științifice "MENER 2002", ISBN 973-648-079-8, București, noiembrie 2002, Universitatea Politehnica din București.
- RĂDAN, S.C., RĂDAN, S., **SZOBOTKA, ȘT.**, OAIE, GH. (2002) – *The use of the magnetic susceptibility as a proxy parameter to differentiating submerged sedimentary environments; applications for lacustrine, fluvial and marine ecosystems*. 8th Castle Meeting, Paleo, Rock and Environmental Magnetism, Castle of Zahrádsky, Czech Republic, September 2-7, 2002, Programme and Abstracts: 52-53.
- DIMITRIU, R.G., OAIE, GH., **SZOBOTKA, ȘT.**, PARASCHIV, G. (2003) – *An interdisciplinary geoenvironmental approach of Golovița-Zmeica area (southern Danube Delta, Romania)*. The Fourth Stephan Muller Conf. of EGU – Geodynamic and tectonic evolution of the Carpathian arc and its foreland: Environmental tectonics and continental topography, Retezat Mts, Southern Carpathians, Romania. May 31-June 5.
- MELINTE, M.C., BRUSTUR, T., JIPA, D., **SZOBOTKA, ȘT.**, ANGHELUȚĂ, C. (2003-2004) – *Turbiditic and Pelagic Upper Cretaceous Oceanic Red Beds in the Romanian Carpathians*. In: Proceedings of Euro-EcoGeoCentre-Romania – Workshop of IGCP 463 on "Modern and Ancient Fluvial, Deltaic and Marine Environments and Processes", Romania, august 15-18, 2004, Geo-Eco-Marina, **9-10**: 133-135, București-Constanța.

- IOVEA, M., OAIE, G., RICMAN, C., MATEIASI, G., NEAGU, M., **SZOBOTKA, ȘT.**, DULIU O.G. (2004) – *Dual energy X-ray computer axial tomography and digital radiography investigation of cores and other objects of geological interest*, 32nd International Geological Congress, 20th -28th August 2004, Florence, Italy.
- MELINTE, M.C., BRUSTUR, T., JIPA, D.C., **SZOBOTKA, ȘT.** (2004a) – *Cretaceous Oceanic Red Beds: response to ocean/climate changes*. The 3rd Meeting of the IGCP Project 463, Bucharest, 15 - 18 August, 2004. Field Guidebook, 65p., National Institute of Marine Geology and Geo-ecology, ISBN 975-962-755-101-0.
- MELINTE, M. C., BRUSTUR, T., **SZOBOTKA, ȘT.**, JIPA, D., ȘIȚĂRU, G. (2004b) – *Valorificarea capitalului natural al României în relație cu cel socio-economic. Studiu de caz: arealul Dâmbovicioara -Rucăr -Bran*. Volumul Sesiunii Științifice "MENER 2004", ISBN 973-648-363-0, București, noiembrie 2004, Universitatea Politehnica din București.
- MELINTE, M.C., BRUSTUR, T., JIPA, D., **SZOBOTKA, ȘT.** (2004c) – *Time deposition of CORB in the East Carpathians*. Workshop of IGCP 463 & 494, Bucharest, August 2004. Volume of Abstracts: 9.
- RĂDAN, S.C., RĂDAN, S., OAIE, GH., **SZOBOTKA, ȘT.** (2004) – *Magnetic susceptibility as a sensitive proxy parameter for differentiating deltaic (lacustrine and fluvial) sedimentary environments; inferences from the Danube Delta (Romania)*. Contributions to Geophysics and Geodesy, **34**, Special issue: 117-119, Geophys. Inst. Slovak Acad. Sci., Bratislava, Slovakia.
- SZOBOTKA, ȘT.** (2004) – *Bathymetrical and sedimentological research along the Romanian section of the Danube River*. Euro-EcoGeo-Centre – Romania. Workshop 1: "Environmental problems of the Lower Danube, including the Danube Delta, and new ideas for an Integrated Observing and Forecasting System in the Lower Danube, Danube Delta and the Black Sea", Bucharest, 19 - 22 January 2004, Abstract volume.
- SZOBOTKA, ȘT.**, BRUSTUR, T., MELINTE, M. (2004) – *Dâmbovicioara - Rucăr - Bran: a geopark in the heart of the Romanian Carpathians*. 32nd International Geological Congress, Florence, Italy, August 20 - 28, 2004, Abstract Volume, Part 1: 242.
- BRUSTUR, T., JIPA, D.C., **SZOBOTKA, ȘT.** (2005) – *The shelly Sarmatian-beds in the Râmnicu Sărat basin (Jitia de Jos, Vrancea County)*, Geo-Eco-Marina, **11**: 67-76, București-Constanța.
- OAIE, GH., SECRIERU, D., **SZOBOTKA, ȘT.**, FULGA, C., STĂNICĂ, A. (2005) – *Danube River: sedimentological, mineralogical and geochemical characteristics of the bottom sediments*. In: European Seas: Coastal zones and Rivers - Sea System, Geo-Eco-Marina, **11**: 77-85.
- BRUSTUR, T., MELINTE, M.C., **SZOBOTKA, ȘT.** (2006) – *Bivalve trace fossils (Lockeia, Protovirgularia) in the Upper Eocene deposits from the Eastern Carpathians (Romania)*. The 18th Congress of the Carpatho - Balkan Association, Belgrade, 3rd - 6th September, 2006, Abstract Volume: 26-27.
- IOVEA, M., OAIE, G., DULIU, O.G., NEAGU, M., S. **SZOBOTKA, ȘT.** (2006) – *An on-board dual-energy X - ray computer tomograph: preliminary experiments and results*, The 17th International Sedimentology Conference, August 2006. Abstract Volume B. Fukuoka, Japan.
- JIPA, D., OLARIU, C., **SZOBOTKA, ȘT.**, MAXIMOV, G., FURTUNĂ, C. (2006) – *Littoral sedimentation in the Dacian Basin (Late Neogene, Romania)*. Euro-EcoGeoCentre – Romania. Conference: "Integrated approach to sustainable development of the coastal zone and deltas", Tușnad, Romania, January 17 - 20, 2006, Volume of Abstracts: 11.
- JIPA, D., **SZOBOTKA, ȘT.**, BRUSTUR, T., AVRAM, C., MAXIMOV, G. (2006) – *Littoral sedimentation in the Dacian Basin (late Neogene, Romania)*. Workshop "River Deltas: Evolution, environmental challenges and sustainable management", Danube Delta, Murighiol, Romania, September 18 - 22, 2006. The U.S. Army Corps of Engineer Research and Development Center. European Research Office, Volume of Abstracts: 13.
- JIPA, D.C., **SZOBOTKA, ȘT.**, BRUSTUR, T., MELINTE, M., AVRAM, C., MAXIMOV, G. (2006) – *Sedimentarea litorală Neogen superioară în Bazinul Dacic*. In: Jipa, D.C. (Ed.) – *Bazinul Dacic. Arhitectură sedimentară, evoluție, factori de control*. ("Evoluția Bazinului Dacic sub controlul factorilor globali/regionali"): 135-164, ISBN-10 973-0-04625-5, ISBN-13 978-973-0-04625-0, București, 2006, 306p.
- JIPA, D.C., **SZOBOTKA, ȘT.**, BRUSTUR, T., UNGUREANU, C., CONSTANTINESCU, D. (2006) – *Faciesul de point-bar din cariera Jilț: model al sedimentării laterale fluviale*. In: Jipa, D.C. (Ed.) – *Bazinul Dacic. Arhitectură sedimentară, evoluție, factori de control*. ("Evoluția Bazinului Dacic sub controlul factorilor globali/regionali"): 171-191, ISBN-10 973-0-04625-5, ISBN-13 978-973-0-04625-0, București, 2006, 306p.
- SZOBOTKA, ȘT.**, JIPA, D. (2006) – *A large point bar in Pliocene coal-bearing deposits of Southwestern Romania: Sedimentary architecture and genetic development*, 25th IAS Meeting of Sedimentology, Patras, Greece, September, 2007, Book of Abstracts: 166.
- SZOBOTKA, ȘT.**, BRUSTUR, T., MELINTE, M.C., JIPA, D. (2006) – *Geological Heritage of the Romanian Carpathians: the Dâmbovicioara - Rucăr - Bran area*. The 18th Congress of the Carpatho - Balkan Association, Belgrade, 3rd-6th September, 2006, Abstract Volume: 75-78.
- DIMITRIU, R.G., OAIE, GH., GOMOIU, M.T., BEGUN, T., **SZOBOTKA, ȘT.**, RĂDAN, S.C., FULGA, C. (2007a) – *The Geoenvironmental Status of the Razelm - Sinoie Lacustrine Complex at the Beginning of the 21st Century* (abstract). The XVIth International Symposium "Deltas and Wetlands 2007", 20-22 Sept. 2007, Tulcea, Romania, Volume of Program and Abstracts.
- DIMITRIU, R.G., OAIE, GH., **SZOBOTKA, ȘT.**, SAVA, C.S., RĂDAN, S.C., FULGA, C. (2007b) – *Hydrogeomorphological Mapping of the Sfântu Gheorghe - Vadu Littoral Zone. Results of the Integrated, Geophysical - Geoenvironmental Research Carried Out During 2005-2006* (abstract). The XVIth International Symposium "Deltas and Wetlands 2007", 20-22 Sept. 2007, Tulcea, Romania, Volume of Program and Abstracts.
- DULIU, O.G., DANIS, A.C., **SZOBOTKA, ȘT.A.** (2007) – *²³⁰Th and ²³¹Pa-excess geochronology of manganese nodules*. In: Proceedings of the 9th Workshop of the European Society for Isotope Research, Cluj-Napoca, 23 - 28.06.2007, ESIR IX, Studia Universitatis "Babeș Bolyai", Geologia, **52**/1: 23.
- JIPA, D.C., **SZOBOTKA, ȘT.**, BRUSTUR, T. (2007) – *Coastal sedimentary processes controlled by sedimentary influx: Late Neogene, Dacian Basin, Romania*. 25th IAS Meeting of Sedimentology, Book of Abstracts: 249, Patras, Greece.

- MELINTE, M.C., BRUSTUR, T., JIPA, D., **SZOBOTKA, S.**, (2007) – *Upper Cretaceous red beds in the Romanian Carpathians: response to ocean/climate global changes*. Editura Eikon Cluj-Napoca, 112 p. ISBN 978-973-757-049-9 („Grigore Cobălcescu” Award of the Romanian Academy).
- SZOBOTKA, ȘT.**, DIMITRIU, R., MELINTE, M., OPREANU, G., TRANCIOVEANU, E. (2007) – *Geocological Assessment of Tuzla Lake (Constanta County, Romania)*. *Geo-Eco-Marina*, **13**: 51-59, București-Constanța.
- UNGUREANU, GH., **SZOBOTKA, ȘT.**, OAIE, GH., GARCIA, A., DOMINIK, J., LOIZEAU, J.L., MIHĂIESCU, R. (2007) – *Mercury distribution in the bottom sediments of the Olt river reservoirs, Romania*. 34th International Conference of Slovak Society of Chemical Engineering, Tatranské Matliare, Slovakia, 21 - 25 May, 2007.
- DIMITRIU, R.G., OAIE, GH., **SZOBOTKA, ȘT.**, RĂDAN, S.C., OPREANU, G., DAN, S., STĂNESCU, I. (2008a) – *Rapid Changes of the seabed hydro-geomorphological features within the Sfântu Gheorghe - Vadu littoral zone (Romanian Black Sea coast)* (abstract). The XVIIth International Symposium “Deltas and Wetlands”, 18-20 Sept. 2008, Tulcea, Romania, Volume of Program and Abstracts: 34-35.
- DIMITRIU, R.G., OAIE, GH., **SZOBOTKA, ȘT.**, RĂDAN, S.C., OPREANU, G., DAN, S. (2008b) – *Rapid Changes of the seabed hydro-geomorphological features within the Sfântu Gheorghe - Vadu littoral zone (Romanian Black Sea coast)* (abstract). 33rd International Geological Congress, Oslo, Norway, 6-14 August, 2008, Abstract CD-ROM.
- DIMITRIU, R.G., OAIE, GH., GOMOIU, M.T., BEGUN, T., **SZOBOTKA, ȘT.**, RĂDAN, S.C., FULGA, C. (2008c) – *O caracterizare interdisciplinară a stării geoecologice a complexului lagunar Razelm - Sinoie la începutul secolului XXI*. In: Earth Sciences Environmental Issues, Sesiune anuală de comunicări științifice (Annual Session of scientific paper presentations), GeoEcoMar – “Științele Pământului, Cunoaștere și Mediu” (Earth Sciences, Knowledge and Environment), *Geo-Eco-Marina*, **14**, Supl. 1: 69-74, 215p. and 3 Annexes, București-Constanța.
- DIMITRIU, R.G., OAIE, GH., **SZOBOTKA, ȘT.**, SAVA, C., RĂDAN, S.C., FULGA, C., OPREANU, G. (2008d) – *Cartarea hidro-geomorfologică a zonei litorale Sfântu Gheorghe - Vadu. Prime rezultate ale cercetării integrate geofizice - geoecologice (2005 - 2006)*. In: Earth Sciences Environmental Issues, Sesiune anuală de comunicări științifice (Annual Session of scientific paper presentations), GeoEcoMar – “Științele Pământului, Cunoaștere și Mediu” (Earth Sciences, Knowledge and Environment), *Geo-Eco-Marina*, **14**, Supl. 1: 75-80, 215p. and 3 Annexes, București-Constanța.
- DULIU, O., IOVEA, M., OAIE, GH., NEAGU, M., **SZOBOTKA, ȘT.**, MATEIAȘI, G. (2008) – *Dual-energy computed tomography and digital radiography: valuable methods in investigating unconsolidated sediments*. International Seminar on Natural Hazards in the Marine Area, 28-29 July 2008, Bucharest, Romania, p.17-19.
- DULIU, O., BRUSTUR, T., **SZOBOTKA, ȘT.**, OAIE, GH., RICMAN, C., ALEXE, V., IOVEA, M., HODOROGEA, S. (2008) – *Studiul interdisciplinar al ecosistemelor semiînchise (lacuri alpine și vulcanice) în vederea stabilirii nivelului de referință pentru aprecierea impactului factorului antropic: lacurile alpine din Masivul Făgăraș și Lacul Sfânta Ana*. In: Earth Sciences Environmental Issues, Sesiune anuală de comunicări științifice (Annual Session of scientific paper presentations), GeoEcoMar – “Științele Pământului, Cunoaștere și Mediu” (Earth Sciences, Knowledge and Environment), *Geo-Eco-Marina*, **14**, Supl. 1: 181-185, 215p. and 3 Annexes, București-Constanța.
- OAIE, GH., OPREANU, P., SEGHEDE, A., **SZOBOTKA, ȘT.** (2008) – *Marine natural hazard: tsunami phenomena along the Romanian Black Sea coast*. CEEX 2008 Conference. Brașov, 27-29 July, 2008, Romania.
- SEGHEDE, A., IANCU, V., GHEUCA, I., MELINTE, M., BRUSTUR, T., **SZOBOTKA, ȘT.**, ANDRĂȘANU, AL., POPA, M., MACALEȚ, R. (2008) – *Geodiversitatea ca instrument în dezvoltarea durabilă a ariilor protejate*. In: Earth Sciences Environmental Issues, Sesiune anuală de comunicări științifice (Annual Session of scientific paper presentations), GeoEcoMar – “Științele Pământului, Cunoaștere și Mediu” (Earth Sciences, Knowledge and Environment), *Geo-Eco-Marina*, **14**, Supl. 1: 175-180, 215p. and 3 Annexes, București-Constanța.
- STRECHIE-SLIWINSKI, C., JUGARU TIRON, L., **SZOBOTKA, ȘT.**, DIMITRIU, R., POP, C.I. (2008) – *Viteze de curenți și debite ale apelor Dunării măsurate cu ajutorul Sontek Riversurveyor ADP*. In: Earth Sciences Environmental Issues, Sesiune anuală de comunicări științifice, GeoEcoMar – “Științele Pământului, Cunoaștere și Mediu”, *Geo-Eco-Marina*, **14**, Supl. 1: 27-34, 215p. and 3 Annexes, București-Constanța.
- UNGUREANU, G.V., BOIAN, V., OAIE, GH., **SZOBOTKA, ȘT.**, SECRIERU, D., DOMINIK, J., LOIZEAU, J.-L., MIHĂIESCU, R. (2008) – *Distribution of the sediment fill and associated pollutants in Băbeni reservoir, Olt River, Vâlcea, Romania*. In: Proceedings of the Swiss – Romanian Research Programme on Environmental Science & Technology (ESTROM), *Geo-Eco-Marina*, **14**: 37-47, București-Constanța.
- CAZACU, C., BRUSTUR, T., **SZOBOTKA, ȘT.**, MELINTE, M.C. (2009) – *Studii asupra sistemelor hidrografice în aria parcului național Cheile Bicazului – Hășmas*. In: Volum dedicat Sesiunii de comunicări științifice a GeoEcoMar - 2009 (Volume dedicated to Scientific session paper presentations - GeoEcoMar, 2009). <http://www.geoecomar.ro/website/publicatii/supliment2009/16.pdf>
- DULIU, O.G., ALEXE, V., MOUTTE, J., **SZOBOTKA, ȘT.A.** (2009a) – *Major and trace element distributions in manganese nodules and micronodules as well as abyssal clay from the Clarion-Clipperton abyssal plain, Northeast Pacific*, *Geo-Marine Letters*, **29/2**: 71-83, Springer-Verlag.
- DULIU, O.G., CRISTACHE, C.I., CULICOV, O.A., FRONTASYEVA, M.V., **SZOBOTKA, S.A.**, TOMA, M. (2009b) – *Epithermal neutron activation analysis investigation of Clarion-Clipperton Abyssal plane clay and polymetallic micronodules*. – *Applied Radiation and Isotopes*, **67**: 939-943, Elsevier, Olanda.
- DULIU, O.G., IOVEA, M., NEAGU, M., OAIE, G., **SZOBOTKA, ȘT. A.**, CRISTACHE, C., TOMA, M., CULICOV, O.A., FRONTASYEVA M.V. (2009c) – *Complex study of oxygenated and anoxic sediments of the Black Sea zones*, Faculty of Physics, General Scientific Seminar, University of Bucharest, 25th November 2009.
- DULIU, O. G., BRUSTUR, T., **SZOBOTKA, ȘT.A.**, STĂNESCU, I., OAIE, GH., DIMITRIU, R.G., RICMAN, C., ALEXE, V., COSTEA, C., IOVEA, M., POP, C., SBĂRCEA, G.B. (2009d) – *Studiul complex interdisciplinar al ecosistemelor semiînchise: lacul alpin Bâlea (Masivul Făgăraș) și lacul vulcanic Sfânta Ana (Munții Harghita)*. In: Volum dedicat Sesiunii de comunicări științifice a GeoEcoMar: 69-84, 2009, 203p. CD-ROM, <http://www.geoecomar.ro/website/publicatii/supliment2009/7.pdf>
- IOVEA, M., OAIE, GH., RICMAN, C., MATEIASI, G., NEAGU, M., **SZOBOTKA, ȘT.**, DULIU, O.G. (2009) – *Dual energy X-ray computer axial tomography and digital radiography investigation of cores and other objects of geological interest*. *Engineering Geology*, **103/3-4**: 119–126.

- MELINTE-DOBRIŢESCU, M.C., JIPA, D., BRUSTUR, T., **SZOBOTKA, ŞT.** (2009) – *East-ern Carpathian Cretaceous Oceanic Red Beds: Lithofacies, Biostratigraphy and Paleoenvironment*. In: Hu, X., Wang, C., Scott, R.W., Wagerich, M., Jansa, L. (Eds.), *Cretaceous Oceanic Red Beds: Stratigraphy, Composition, Origins and Paleoclimatological/Paleoclimatic Significance*, SEPM Special Publication, **91**: 119-127.
- NICA, D.B., CURELEA, D., MELINTE, M.C., BRUSTUR, T., **SZOBOTKA, ŞT.**, STĂNESCU, I. (2009) – *Natural capital recovery in the former uraniferous mining area situated in the Romanian Carpathians. Case study: the Natural Park of Grădiştea de Munte – Cioclovina. "Sedimentary Processes and Deposits within River-Sea Systems"*, Geo-Eco-Marina, **15**: 117-122, Bucureşti-Constanţa.
- STĂNESCU, I., MELINTE, M., BRUSTUR, T., **SZOBOTKA, ŞT.**, CAZACU, C., BRICEAG, A., OPREANU, G. (2009) – *Cercetări sedimentologice, geocologice (geochimice, hidrochimice, biologice) în Parcul Natural Balta Mică a Brăilei*. In: Volum dedicat Sesiunii de comunicări ştiinţifice a GeoEcoMar: 57-68, 2009.
- BRICEAG, A., VÂRZARU, C., ROBAN, R.D., DIMITRIU, R.G., MELINTE-DOBRIŢESCU, M.C., BRUSTUR, T., **SZOBOTKA, ŞT.**, STĂNESCU, I. (2010a) – *Lacul Roşu - Ghid geo-ecologic*. 37 p., 2 maps, Ed. Eikon, Cluj-Napoca.
- BRICEAG, A., MELINTE-DOBRIŢESCU, M.C., DIMITRIU, R.G., ROBAN, R.D., BRUSTUR, T., VÂRZARU, C., **SZOBOTKA, ŞT.**, STĂNESCU, I. (2010b) – *A geological and environmental evaluation of "Lacul Roşu" (Red Lake, Eastern Carpathians, Romania)*. Anal. Univ. "Al. I. Cuza", **LVI/2**: 5-7, Iaşi.
- VÂRZARU, C., MELINTE-DOBRIŢESCU, M.C., BRUSTUR, T., **SZOBOTKA, ŞT.A.**, BRICEAG, A. (2010) – *The significance of several Upper Cretaceous marine fossil sites for the geodiversity of the Haţeg country*. In: Proceedings of the International Symposium Geology of Natural Systems – Geo Iaşi 2010, September 1 – 4, 2010, Iaşi, Romania, Analele ştiinţifice ale Universităţii „Al. I. Cuza”, Iaşi (serie nouă) – Geologie (AUI-G), Special issue: 141-143, ISSN 1223-5342.
- BRUSTUR, T., **SZOBOTKA, ŞT.A.**, STĂNESCU, I. (2011) – *The ichnogenus Thalassinoides from the Kersonian deposits of Buleta (W Râmnicu Vâlcea, Romania)*. In: Abstract Book: 9-10 (Ed. Zoltán. Csiki) – The 8th Romanian Symposium on Paleontology, Bucharest, September 29-30, 2011, Ed. Ars Docendi - Universitatea din Bucureşti, 146p.
- COSTEA, C., DULIU, O.G., DANIS, A., **SZOBOTKA, ŞT.** (2011) – *SEM investigations of CR-39 and mica-muscovite solid state nuclear track detectors*, Romanian Reports in Physics, **63/1**: 86–94. http://www.rp.infm.ro/2011_63_1/08-Costea-Duliu.pdf
- IOVEA, M., NEAGU, M., DULIU, O.G., OAIE, GH., **SZOBOTKA, ŞT.**, MATEIAŞI, G. (2011) – *A dedicated on-board dual-energy computer tomograph*. Journal of Nondestructive Evaluation, **30/3**: 164-171, Springer.
- DIMITRIU, R.G., OAIE, GH., **SZOBOTKA, ŞT.**, RĂDAN, S.C., OPREANU, G., DAN, S., STĂNESCU, I. (2013a) – *Rapid changes of the seabed hydrogeomorphological features within the Sfântu Gheorghe - Vadu littoral zone (Romanian Black Sea coast)* (Abstract: 95). In: Török L. (Ed.) (2013) – *Deltas and Wetlands* (Book of abstracts), Chapter 6: The 17th Scientific Symposium "Deltas and Wetlands" - 2008, Posters, 226 p., ISSN 2344-3766, ISSN-L 2344-3766, ISBN-978-973-88117-5-1, NIRDEP - Danube Delta National Institute for Research and Development, Tulcea, România.
- DIMITRIU, R.G., OAIE, GH., GOMOIU, M.T., BEGUN, T., **SZOBOTKA, ŞT.**, RĂDAN, S.C., FULGA, C. (2013b) – *The geoenvironmental status of the Razelm - Sinoie Lacustrine Complex at the beginning of the 21st century* (Abstract: 101-102). In: Török L. (Ed.) (2013) – *Deltas and Wetlands* (Book of abstracts), Chapter 7: The 16th Scientific Symposium "Deltas and Wetlands" - 2007, Oral Presentations, 226 p., ISSN 2344-3766, ISSN-L 2344-3766, ISBN-978-973-88117-5-1, NIRDEP - Danube Delta National Institute for Research and Development, Tulcea, România.
- DIMITRIU, R.G., OAIE, GH., **SZOBOTKA, ŞT.**, SAVA, C.S., RĂDAN, S.C., FULGA, C. (2013c) – *Hydrogeomorphological mapping of the Sfântu-Gheorghe - Vadu littoral zone. Results of the integrated, geophysical geoenvironmental research carried out during 2005-2006* (Abstract: 102-103). In: Török L. (Ed.) (2013) – *Deltas and Wetlands* (Book of abstracts), Chapter 7: The 16th Scientific Symposium "Deltas and Wetlands" - 2007, Oral Presentations, 226 p., ISSN 2344-3766, ISSN-L 2344-3766, ISBN-978-973-88117-5-1, NIRDEP - Danube Delta National Institute for Research and Development, Tulcea, România.
- DULIU, O.G., LYAPUNOV, S.I., GORBUNOV, A.V., RİCMAN, C., BRUSTUR, T., **SZOBOTKA, ŞT.A.**, DIMITRIU, R.G., POP, C., FRONTSAYEVA, M.V., CULICOV, O.A., IOVEA, M. (2013) – *On the heavy elements content of sediments and rocks from two semiclosed ecosystems: proglacial lake Bâlea (Făgăraş Mountainins) and crater lake St. Ana (Harghita Mountains)*. Physics of Particles and Nuclei Letters, **10/5**: 469-475, Springer.
- VIGNATI, D.A.L., SECRIERU, D., YULIYA I. BOGATOVA, YU.I., DOMINIK, J., CÉRÉGHINO, R., BERLINSKY, N.A., OAIE, GH., **SZOBOTKA, ŞT.**, STANICĂ, A. (2013) – *Trace element contamination in the arms of the Danube Delta (Romania/Ukraine): Current state of knowledge and future needs*. Journal of Environmental Management, **125**: 169-178, ISSN 0301-4797.
- OAIE, GH., SECRIERU, D., BONDAR, C., **SZOBOTKA, ŞT.**, STĂNESCU, I., OPREANU, G., DUȚU, L., DUȚU, F., POJAR, I., MANTA, T. – *Lower Danube River: sediments and pollutants characterization*. Geo-Eco-Marina (in press).