



Dr. Lucian Besutiu

Head of Solid Earth Laboratory

<http://cyberdyn.geodin.ro/people/people.php>

PERSONAL DATA

First name: Lucian

Name: Besutiu

Year of birth: 1948

Affiliation: Institute of Geodynamics of the Romanian Academy, 020032 Bucharest,
19-21 Jean-Louis Calderon St

Position: senior research scientist, head of the Solid Earth Dynamics Dept.

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PROFESSIONAL CAREER

Since 2002 senior research scientist with the Institute of Geodynamics of the Romanian Academy; head of the Solid Earth Dynamics Department

2000-2002 senior research scientist with the Institute of Geodynamics of the Romanian Academy;

2000-2001 senior research scientist with the Geological Institute of Romania; head of the Geophysics of Lithosphere Department

1995-2000 senior research scientist with the Geological Institute of Romania (Romanian Geological Survey)

1987-1995 senior research scientist with the Institute for Geology and Geophysics in Bucharest

1985-1986 head of the magnetics team within GEOMIN expedition in Republic of Ghana

1978-1985 research scientist with the Institute for Geology and Geophysics in Bucharest

1975-1978 geophysical engineer with the Institute for Geology and Geophysics in Bucharest

1972-1974 resident geophysical engineer with the Institute for Applied Geophysics, Bucharest

Education

1968-1972 Institute for Oil, Gas and Geology Bucharest - Faculty of Technical Geology-Geophysics section (graduated honours)

1962-1966 High school (graduated honours)

Post Graduate Studies

1993-1997 University of Bucharest: PhD in Geology

1994 S.C. Dynatek S.A. Training Center: AutoCad 11

1990 Romanian National Committee for Informatics: 16 bits micro-computers exploiting

1981-1984 Ministry for Mining, Oil and Geology Training Centre: English for mineral ore exploration

1980 University of Bucharest: Geophysics for Solid Ore Deposits

Short research stages

2006 â€“ Hungary, Eotvos Lorand Geophysical Institute (ELGI) in Budapest: High accuracy repeated gravity observations for monitoring non-tidal gravity change

1998 â€“ Germany, Freie University in Berlin: Using high performance 3D modelling tools for gravity and geomagnetic data interpretation (IGMAS software package)

1987 â€“ Hungary, Geodetic and Geophysical Research Institute of the Hungarian Academy of Sciences in Sopron (Nyugatny Geomagnetic Observatory): Space-time evolution of the geomagnetic field within Hungary and Romania

1985 Kazakhstan â€“ Kazakh State Enterprise for Ore Deposits Exploration, Aktiubinsk: High accuracy geomagnetic investigations by using proton and optical-pump magnetometers

1984 Poland â€“ Polish State Enterprise for Ore Prospecting: high accuracy ground magnetics by using proton and optical pump magnetometers

1983 Bulgaria â€“ Institute of Geophysics of the Bulgarian Academy: High accuracy ground geomagnetic

investigations in Rhodope Mts. (Pamporovo, close to the Greek state-border)
1982 East Germany – State Exploration Enterprise: High accuracy magnetics within man-made noise areas (Plauen, southern state-border with Bavaria, West Germany)
1981 Kazakhstan – Kazakh Exploration Expedition: Experimental high accuracy magnetics within Mugadjarskie Mts. (East Karaganda).

Research Experience

LONG RANGE CAREER INTERESTS:

Potential fields
Integration of Geophysics and Geology
Computer applications in Earth Sciences
Engineering and environmental targeted geophysics

MAIN AREAS OF ACTIVITY:

GRAVITY AND GEOMAGNETIC STANDARDS

- author of the Romanian National Geomagnetic Reference Network for the finalization of the ground vertical component geomagnetic map of Romania
- co-author of the Romanian National Gravity Reference Networks: design of the Romanian First- and Second-Order Gravity Reference Networks and adjustment of the Romanian First Order Gravity Network
- research for the integration of the Romanian gravity system into the Central Europe gravity standard (UNIGRACE project)
- author of the Moldavian National Gravity Reference Network
- comparisons between geomagnetic standards of Romania, Ukraine and Republic of Moldova (UKROMM project)

LARGE SCALE GRAVITY AND GEOMAGNETIC MAPPING

- co-author of the Romanian National Ground Vertical Component Geomagnetic Map
- research on the geomagnetic reference fields: geophysical meaning and algorithms
- research on the distortions in the large scale composite geomagnetic maps caused by the space-time evolution of the geomagnetic field (DYGEOF project)
- author of the revised version of the Romanian National Airborne Geomagnetic Map (DYGEOF project)
- PI for the achievement of the joint geomagnetic map of Romania and Ukraine across the northern Romanian state-border (DEEP project)
- PI for the achievement the joint geomagnetic map of Romania, Republic of Moldova and Ukraine in the Low Danube area (MAGLODAN project)
- Romanian representative in the World Digital Magnetic Anomaly Map (WDMAM) project

GEOPHYSICAL DATA ACQUISITION AND PROCESSING

- more than 10 years of field campaigns for regional geomagnetic mapping of the Romanian territory
- detailed geomagnetic survey for structural aims and magnetics for ore deposits
- special detailed magnetic prospecting for manganese ore deposits at Nsuta, Western Region, Ghana; particular research on doing geomagnetic data acquisition & processing in the geomagnetic southern hemisphere, close to the geomagnetic equator
- research aimed at finding & applying a specific methodology for shallow-water geomagnetic and gravity investigations within Danube Delta
- research aimed at finding and applying a specific methodology for underground detailed gravity investigations in mining areas
- research on the influence of the man-made noises on geomagnetic prospecting, and setting up a methodology for exploration in mining zones

MODELLING

Tentative attempts for modelling gravity and geomagnetic anomalies in various areas: North Dobrogea folded belt, the transition area between North Dobrogea on-shore and Black Sea off-shore, South Carpathians, the Tornquist-Tesseyre Zone, Vrancea zone, etc.

GEOLOGICAL INTERPRETATION OF GEOPHYSICAL DATA

Complex geological interpretation of various geophysical data sets in synergy with other available information (e.g. DTM, geology, tectonics, rock physics, deep wells, well logging).

TECTONIC & GEODYNAMICS STUDIES, INCLUDING SEISMOLOGY

The main research interest focuses on the unusual intra-continental intermediate-depth seismicity located in

the bending region of East Carpathians, the so-called Vrancea zone. Among the research objectives are:

- outlining the major lithospheric contacts on the Romanian territory and their geophysical and geodetic monitoring
- research on the geophysical imprints of the Black Sea opening and its seismotectonic consequences for the NW inland
- research on the dynamics of the active faults located within the Black Sea NW inland on the Romanian and Ukrainian territories
- analysis of the intermediate-depth seismicity peculiarities (e.g. hypocenter location, focal mechanism, magnitude, energy released, space-time dynamics);
- research on the non-tidal gravity changes and their connection to lithosphere dynamics;
- crust deformation monitoring in the Vrancea zone using both space and ground geodesy

Among the main research results may be cited:

- design and achievement of a specific research infrastructure for monitoring lithosphere dynamics on the Romanian territory: the National Geodynamic Network, including a micro-net for the Vrancea region;
- design and achievement of the Baspunar geodynamic observatory aimed at monitoring dynamics of a major lithosphere contact: Peceneaga-Camena Fault
- a model for the Black Sea opening and evolution
- a coherent geodynamic model for explaining the unusual crustal seismicity of the Eastern MoP
- a new model for the Vrancea active seismic area, and implementation of the geodynamic concept of the unstable triple junction in the Romanian scientific literature

ENGINEERING GEOPHYSICS

UXO & other buried iron objects (research for cleaning area of the platform for calibrating airplane compasses at the Baneasa airport, Bucharest), buried pipes (Medgidia, Dobrogea), archeomagnetics (Zalau, Porolissum Roman castrum), cavities & underground waters (Slanic Prahova salt mine), etc.

Teaching

since 1997 - University of Bucharest : invited lectures on geomagnetic field; mentoring, tutoring BSc, MSc thesis at University of Bucharest

Since 2002 - Babes- Bolyai University in Cluj-Napoca : Associate Prof.: lectures on Physics of the Earth, Applied Geophysics, and Well Logging

Invited talks

Jan-Feb 1998 Freie University in Berlin : lectures on isostasy

Feb 2006 University in Karlsruhe : lectures on non-tidal gravity change

Dec 2006 University in Strasbourg (Institute de Physique du Globe): lectures on geodynamic/seismotectonic consequences of the Black Sea opening

Industry

1985-1986 head of the magnetics team within GEOMIN expedition in Republic of Ghana. Geophysical prospecting and exploration (drilling) activities for manganese ore deposits prospect at Nsuta (Western Ghana region)

- mapping total intensity scalar of the geomagnetic field; data acquisition and processing
- geomagnetic data interpretation and modelling near the Earth equator, in Southern hemisphere
- designing exploration drilling activities (well location, dipping, depths, etc.)

Conferences

2010

Annual Conference of the Romanian Geological Society, Bucharest, 5-6 Nov. 2010

Besutiu, L., Zlaganean, L. Considerations on the geophysical fingerprint of the Peceneaga-Camena Fault Workshop, NAMA 2010 (Nuclear Analytical Methods and Applications): Bucuresti, 3-4 Nov 2010.

Cosma, C., Dinu A., Papp B., Begy R., Gabor A., Brisan N., Besutiu L.: Radon implication in the life and Earth Science

2nd IGGRS (International GeoHazards Research Society): Rosignano, Italia, 27-29 Sep 2010

Cosma C., Papp B., Brisan N., Badarau S., Nita D., Begy R., Besutiu L.: Radon measurements on some faults from Romania: Preliminary study in Peceneaga-Camena fault zone

XIX Congress of the Carpathian-Balkan Geological Association, Thessaloniki, Greece, 23-26 September 2010

Besutiu, L. Crust to lithosphere geophysical imprints of the W Black Sea opening
AGU 2010 "Meeting of the Americas™, Foz do Iguacu, Brazil, 8 – 12 August 2010, co-convenor of the session S-24A
Besutiu, L. Gravity and Geodesy Evidence on Deep Geodynamic Processes within Vrancea Intermediate-Depth Seismicity Zone
EGU 2010 General Assembly, Vienna, Austria, 2 – 8 May 2010
Besutiu, L., Zlaganean, L. Monitoring dynamics of an active plate boundary: Peceneaga-Camena Fault

2009

International Experts Meeting on Carpathian Geodynamic Network, Bucharest, Romania, 19-21 October 2009: chairman
Besutiu, L., Zlaganean, L. Watching potential links between dynamics of the adjacent tectonic compartments and Vrancea intermediate-depth seismicity: the Baspunar experiment
2009 IAGA Scientific Assembly, Sopron, Hungary, 23 – 30 August 2009
Besutiu, L., Zlaganean, L. Large scale crustal features on the Romanian territory as inferred from the geomagnetic data
Besutiu Lucian, Luminita ZIÄfgnean, Ligia Atanasiu, Valentin Sgarciu, MÄfdÄflin Vlad, Ioan Stelea, Gabriela Cucu, Andrei Soare, Marian Ivan, Bogdan Niculescu: A space-time consistent national airborne geomagnetic map of Romania
2009 MAEGS: 16th Meeting of the Association of European Geological Societies, Babes-Bolyai University Cluj-Napoca, Romania, 9-13 July 2009
Besutiu, L. Geodynamic considerations on the seismicity of the SE Carpathians and their foreland
EGU General Assembly, Vienna, Austria, 13 - 18 April 2009
Besutiu, L., Zlaganean, L. Watching structural and geodynamic features of a plate boundary: Peceneaga-Camena Fault
Besutiu, L., Rus, T., Zlaganean, L., Monitoring lithosphere dynamics on the Romanian territory: preliminary results
Mitrofan, H., Chitea F., Marin, C., Zugravescu, D., Besutiu, L. and A. Tudorache, "Routine" versus earthquake-related behavior in Na-K-Mg geothermometry records of Vrancea area (Romania)
69th DGG Annual Meeting, Kiel, Germany, 23 - 26 March 2009
Besutiu, L. New insights on the intracontinental intermediate-depth seismicity within the bending zone of East Carpathians (invited paper)

2008

Simpozion AMTRANS 2008, "Contributii Stiintifice, in Domeniul TRANSPORTURILOR, inregistrate la Programul CEEX", Bucuresti, Romania, 6-7 noiembrie 2008
Besutiu L., Atanasiu L., Zlaganean L., Sgarciu V., Vlad M., Ivan M., Niculescu B., Stelea I., Cucu G., Soare A. CercetÄri asupra dinamicii spatio-temporale a campului magnetic terestru vizand construirea unor modele geomagnetice unitare pentru teritoriul Romaniei integrate Än context european si global
International Experts Meeting on Carpathian Geodynamic Network, 23 – 24 October 2008, Warsaw, Poland
Besutiu, L. Geodynamic monitoring of the Romanian territory
Besutiu, L. Lithosphere dynamics on the Romanian territory as inferred from non-tidal gravity change
The 3rd Anniversary Symposium GeObMag 2008 , 16 - 18th October 2008, Bucharest, Romania
Besutiu, L. Considerations on the time-consistency within large-scale geomagnetic maps
Besutiu, L. , ZIÄfgnean, L. , Atanasiu, L. , Sgarciu, V. , MÄfdÄflin, V. , Stelea, I. , Cucu, G. , Soare, A. , Ivan, M. , Niculescu, B. DYGEF project: towards a consistent model of the geomagnetic field on the Romanian territory integrated within continental and global framework
SGR 2008 - Conferinta anualÄf a SocietÄftii Geologice a Romaniei, Bucuresti, Romania, 4-5 octombrie 2008
Besutiu, L., Atanasiu, L., Zlaganean, L., Tumanian, M., Mitrofan, H., Radulian, M., Popa, M., Rogozea, M., Rus, T., Neuner, H., SÄfbÄfu, G., Negulescu, E., Baltres, A.: INDEGEN project - a multidisciplinary approach for studying the intermediate-depth seismicity within Vrancea zone
2008 MENER, Sinaia, Romania, 04-07 septembrie 2008
Besutiu, L., Radulian, M., SÄfbÄfu, G., Rus, T. New insights on the intermediate-depth seismicity within Vrancea zone
33rd International Geological Congress, Oslo, Norway, 06-14 August 2008
Besutiu, L., Atanasiu, L., Zlaganean, L., Mitrofan, H., Radulian, M., Popa, M. , Rogozea, M. , Rus, T., Neuner, H. , Sabau, I. , Negulescu, E. , Baltres, A. : New insights on the structure and dynamics of the intermediate-depth seismic zone located in the bending area of East Carpathians: INDEGEN project
Atanasiu, L., Besutiu, L., Gravity models of the Vrancea active seismic zone
ZIÄfgnean, L., Besutiu, L., Lithosphere dynamics within Vrancea seismic nest as inferred from non-tidal gravity change
2008 AGU Joint Assembly, Fort Lauderdale, Florida, 27-30 May 2008

Besutiu, L.: Considerations on the time-consistency within the large-scale composite geomagnetic maps
AQTR 2008, Cluj Napoca, Romania, 22-25 May 2008
Vlad, M., Zlaganean, L., Sgarciu, V., Besutiu, L. Information system for storing and processing of aeromagnetic data from Romanian territory
2008 EGU General Assembly, Vienna – Austria, 13-18 April 2008
Besutiu, L., Atanasiu L., Zlaganean L., Anghelache M., Lungu A., Sgarciu V., Ivan M., Niculescu B., Stelea I., Cucu G., Soare A.: Consistent geomagnetic models for the Romanian territory valid at the epoch 2007.5
Zlaganean, L.; Lungu, A.; Besutiu, L.: Rock physics properties of the upper crust within Vrancea active seismic region
Manea, V.C.; Manea, M.; Besutiu, L.; Tumanian, M.: Thermal stress field and seismicity beneath the Vrancea relict subduction zone
Atanasiu, L., Besutiu, L.: Gravity - based models of the northern Moesian Plate

2007

10th International Congress of the Brazilian Geophysical Society, Rio de Janeiro, Brazil, 19-22 November 2007
Besutiu, L.: Considerations on the major lithosphere contacts on the Romanian territory and related dynamics as inferred from geophysical data
Progress on seismic and geotectonic modeling across CEI territory and implications on preventing and mitigating seismic risk, Bucharest, Romania, 24 – 26 October 2007
Besutiu, L. On the geodynamic evolution of the SE Carpathians and their foreland (Romania), and related seismicity
Collision and Extension in the Alpine - Carpathian – Pannonian System, Siófok, Hungary, September 14-16, 2007
Tondi R., Achauer, A., and Besutiu, L., Seismic and density structure beneath the Vrancea seismogenic zone 2007 IUGG General Assembly, Perugia, Italy, 2 – 13 July 2007
BESUTIU, L., Atanasiu, L., Damian, A., ZIÄfganean, L. Large scale features of the south-easternmost TTZ as inferred from geophysical data•
Tondi, R., Achauer, U., Besutiu, L. Density, shear and compressional velocity models for the Vrancea seismic zone
Atanasiu, L., Besutiu L., Cucu, G., Soare, A. Geomagnetic reference field models on the Romanian territory and their space-time dynamics as inferred from ground and satellite data
ZIÄfganean, L., Besutiu, L. Comparative study concerning intermediate seismicity dynamics within some seismic nests• of the world
2007 AGU Joint General Assembly, Acapulco-Mexico, 21 – 25 May 2007
BESUTIU, L. Crust to Upper Mantle Echoes of the Black Sea Opening and Seismotectonic Consequences on the NW Inland
Tondi, R., Achauer, U., BESUTIU, L. Density, Shear and Compressional Velocity Models of the Vrancea Seismogenic
2007 EGU General Assembly, Vienna – Austria, 15-21 April 2007
Besutiu L., Neaga V., Atanasiu L., ZIÄfganean L., Ilies I.. Joining airborne geomagnetic maps of Romania and Republic of Moldova. Consistent geomagnetic models crossover the state borders

2006

GEO-2006 Geologia si Geofizica Între traditie si schimbare: Sesiunea anuala de comunicari a Facultătii de Geologie si geofizică, Universitatea Bucuresti, 26-27 mai 2006
BESUTIU, L. New considerations on the Black Sea basin opening and its implication on the geodynamic setting of the SE Carpathians foreland, based on potential fields analysis
Spranceana, V., BESUTIU, L., Dordea, D., Harta anomalilor aeromagnetice reziduale IGRF pe teritoriul Romaniei: implementare si secente interpretative
Ziua Usilor Deschise ale Academiei Romane, 4 aprilie 2006, Bucuresti
Besutiu L., Atanasiu L., Damian A., Horomnea M., Paduroiu F., Zlaganean L.: Cercetări complexe pentru descifrarea structurii si dinamicii marginii de SW a Platformei Est-Europene (poster)
EGU 2006 General Assembly, Vienna-Austria, 02-07 April 2006
BESUTIU, L. ZIÄfganean, L. Plate boundaries and lithosphere dynamics in the non-tidal gravity change on the Romanian territory
Rus, T., Besutiu, L., Buse, I., Stoian, I., Nacu, V. Current geodynamic investigations in Romania in the frame of CERGOP-2
Rus, T., Ghitau, D., Buse, I., Besutiu, L., Stoian, I., Nacu, V., Stanescu, G. Aspects of geodetic and geodynamic investigations in Romania – CERGOP-2/Environment Project (poster)

2005

Simpozionul „Mircea Savul“ al Universitătii din Iasi, 29-30 octombrie 2005, Iasi

BESUTIU L., ZIÄfgnean L. Consideratii asupra seismicitÄftii din zona Vrancea Ä®n contextul geodinamic al forelandului Carpatilor

Ziua Usilor Deschise ale Academiei Romane, 4 aprilie 2005, Bucuresti

BESUTIU L., ATANASIU L., DAMIAN A., HOROMNEA M., NEGOITÄ, V., POLONIC G., NICOLAE L., ZLÄ,GNEAN L., CercetÄfri geofizice complexe Ä®n zone geodinamic active, cu privire specialÄf asupra zonei seismogene Vrancea. Studiul evolutiei unor parametri, potential legati cauzal de dinamica unor elemente tectonice situate cu precÄfdere Ä®n zona geodinamic activÄf Vrancea, poster

IAGA 2005 10th Scientific Assembly of the International Association of Geomagnetism and Aeronomy, Toulouse-France, 18-29 July 2005

BESUTIU, L., ORLYUK, M., DEMETRESCU, C., PASHKEVICH, I., ATANASIU, L., MAKSIMCHUK, V., ZLAGNEAN, L. â€œPreliminary considerations on DEEP project. Consistent geomagnetic images cross-over the state borders between Romania and Ukraineâ€•

BESUTIU, L., ATANASIU L., DAMIAN A., HOROMNEA M., ZLAGNEAN L. Dynamics and structures of the East European Platform as inferred from geophysical dataâ€• cu rezultatele obtinute Ä®n cadrul cadrul proiectului DEEP (colaborare cu Ucraina), poster

BESUTIU L., GHITÄ,U D., ZLAGNEAN L., ZUGRAVESCU D. Model spatio-temporal privind dinamica litosferei din zona Vrancea dedus din datele gravimetrice si geodezice spatiale, poster

14th Meeting of the Association of the European Geological Societies (MAEGS-14), Turin-Italia, 19 - 23 September 2005

BESUTIU, L., ZLÄ,GNEAN, L., HOROMNEA, M., â€œVrancea intermediate depth seismicity within the framework of the SE Carpathians forelandâ€•

4th Congress of the Balkan Geophysical Society â€œRSG-BGS / EAGE & SEG / EGU & AGU Bucharest 2005â€• International Conference & Exhibition of Applied Geophysics and Earth Physics, 9-12 October 2005, Bucharest, Romania

BESUTIU, L., Atanasiu, L., Damian, A., Horomnea. M., ZIÄfgnean, L. (2005) Considerations on the SE extent of the Tornquist-Teisseyre zone on the Romanian territory

BESUTIU, L., ZIÄfgnean, L., Horomnea, M. (2005) Non-tidal gravity changes across major lithosphere boundaries on the Romanian territory

SPRINCEANA, V., BESUTIU, L. (2005) The airborne geomagnetic map of Romania: A new look

RUS, T., BESUTIU, L., StÄfnescu, G., Stoian, I., Buse, I., (2005) CERGOP 2/ENVIRONMENT project. Three plate kinematics in Romania

BUDANOV, V.G., ZUGRAVESCU, D., SAVA, C.S., BESUTIU, L., LEONTIEV, V.I., DUBOVSCOY, V.B. (2005) Rational geophysical strategy of buried active faults delineation and monitoring: Russian Platform and Romanian Carpathians

BEKLEMISHEV, A.B., BUDANOV, V.G., BESUTIU, L., SAVA, C.S., ZUGRAVESCU, D. (2005) Recent dynamics of East Romania fault zones revealed by 3C micro seismic screenings

EGU 2005 General Assembly, Vienna-Austria, 24-29 April 2005

BESUTIU, L., Ghita, D., Zugravescu, D. â€œLithosphere dynamics within Vrancea zone (Romania) as inferred from space geodesy and gravity data":

2004

CONRO-2004, Bucuresti, 5-10 Octombrie 2004

BESUTIU, L., GHITAU, D., ZLAGNEAN, L., ZUGRAVESCU, D. Model spatio-temporal asupra dinamicii litosferei din zona Vrancea dedus din datele gravimetrice si geodezice spatiale

CERGOP-2 Working Conference, Sofia, 30 September â€“ 01 October 2004

BESUTIU, L. Sub-regional geodynamic investigations in Balkan Peninsula: Geodynamic studies within Vrancea zone, Romania (a Monograph)

PANGEO Austria 2004, Graz, 24-26 September 2004

BESUTIU, L., GHIOCA, G., ZLAGNEAN, L., ZUGRAVESCU, D. Considerations on the lithosphere compartments and their dynamics on the Romanian territory, as inferred from geophysical data

EGU-2004 General Assembly, Nice, 25-30 April 2004

BESUTIU, L., GHITAU, D., ZUGRAVESCU, D. Recent lithosphere dynamics within Vrancea active seismic zone, as inferred from geodesy and gravity data

AGU, SEG, EEGS, Joint General Assembly Montreal, 17-21 May 2004

BESUTIU, L., ZUGRAVESCU, D. "Lithosphere compartments and their dynamics on the Romanian territory. Seismotectonic consequences"

2003

Sesiunea â€œAURUL ALB. ASPECTE GEOLOGICE SI GEOFIZICE LEGATE DE BARAJE. IMPLICATII SOCIO-ECONOMICE â€• Bucuresti, 12.12.2003

DOREL ZUGRAVESCU, DUMITRU STANICA, LUCIAN BESUTIU, ION TOMA, LIGIA ATANASIU, VLAD RADULESCU, RODICA PRUNDEANU: Studii geofizice integrate Ä®n zona amenajÄfri hidroenergetice Vidraru

CRIMEA " 2003 "Geodynamic & Oil/Gas bearing issues of the Black Sea-Caspian region, Gurzuf, September 8-13, 2003

BESUTIU, L. plate tectonics on the Romanian territory. Dynamics and some seismotectonic consequences
The 4th Stephan MĂViller Conference - Geodynamic and Tectonic Evolution of the Carpathian Arc and its Forelandâ•, 31 mai-5 iunie 2003, Cheile Butii-Mtii Retezat

BESUTIU, L., Cadicaneanu, N. Comparative analysis on the space-time dynamics of the Vrancea (Romania) intermediate-depth seismicity and seismicity within Bucaramanga (Bolivia) and Hyndu Kush (Afghanistan)
BESUTIU, L., ZugrĂfvescu, D. Some considerations on the Black Sea opening. Tectonic and geodynamic consequences

GEO-2003 Sesiunea de comunicări a Societății Geologice a României, 23-24 mai 2003, Cluj-Napoca

BESUTIU, L. Geodynamics of the SE Carpathians foreland related to the Black Sea opening as inferred from geophysical data

Joint EGS, AGU and EGU General Assembly, 6-11 April, 2003, Nice-France

BESUTIU L., ZugrĂfvescu, D. "Plate tectonics on the Romanian territory as inferred from geophysical data"

2nd Mineral Sciences in the Carpathians Conference. 06-07 martie 2003, Miskolc-Ungaria,

BESUTIU, L., Gorie, J., Dordea, D., "Geophysical setting of the deep well 6042 Deleni in central Transylvania-Romania"

2002

International Symposium "25 years of research in Earth Physics", 27-29 September 2002, Bucharest

BESUTIU, L. "Evidence for a continental unstable triple-junction as an alternate model for Vrancea seismicity"

BESUTIU, L., Cadicaneanu, N. "Some considerations on space-time migration of the Vrancea intermediate-depth seismicity"

CRIMEA " 2002 "Geodynamics and Petroleum-Prone Structures of the Black and Caspian Seas Regionâ•, 09-14 septembrie 2002, Gurzuf " Ukraine

BESUTIU, L., ZugrĂfvescu D. "Geophysical evidence on the Black Sea opening and geodynamic echoes within the NW inlandâ•"

3rd Balkan Geophysical Congress and Exhibition, 24-28 June 2002, Sofia, Bulgaria

BESUTIU, L. Vrancea active seismic area; evidence towards a continental triple junction.

Realizările și perspectivele în geologia și paleontologia românească - 31.05-01.06.2002, Cluj-Napoca

BESUTIU, L., ATANASIU, L. Geophysical considerations on the TTZ extent on the Romanian territory

GEO 2002 " SESIUNEA ANUALĂ DE COMUNICARI A SOCIETATII GEOLOGICE A ROMANIEI - 24-25 Mai 2002, Bucuresti

BESUTIU, L., CADICHEANU, N. Migration of the intermediate-depth seismicity within Vrancea area: reality or mathematical fiction?

BESUTIU, L. Geomagnetic reflection of an ancient plate boundary southern South Carpathians, Romania. Trans-Getica Fault

XXVII EGS General Assembly " Nice, France, 21-26 April, 2002

BESUTIU, L., ZUGRAVESCU, D. Considerations on the Black Sea opening and its seismotectonic consequences

2001

EUROPROBE " Joint meeting of URALIDES, GEORIFT, TESZ and SW IBERIA projects: Devonian-Triassic āœotime sliceâ• Symposium, 28-29 October, 2001-Moscow

BESUTIU, L. Geophysical evidence concerning the TESZ path on the Romanian territory

PANCARDI 2001 MEETING "Sopron, Hungary, September 19 - 21, 2001

BESUTIU, L. Moesia, a Baltica related terrane?

International Conference "Geodynamic hazards (earthquakes, landslides), Late Alpine tectonics and neotectonics in the Rhodope Regionâ• Bulgaria, May 2001

BESUTIU, L. Earthquakes and structures within northern Moesian Plate

4-th UNIGRACE Working Conference: 28-29 May, 2001, Trieste, Italy

ROSCA, VI., BESUTIU, L., Nicolescu, A., Pop, L.: 2000 Romanian Annual Progress Report for the UNIGRACE Project

Sesiunea anuală de comunicări științifice a Institutului Geologic al României: 15-16 martie 2001, Bucuresti

BESUTIU, L., NICOLESCU, A., ROSCA, VI. Integration of the Romanian gravity standard into the Central-Europe gravity system.

BESUTIU, L. Several consideration on the Peceneaga-Camena Fault.

2000

EUROPROBE GeoRift, EUROBRIDGE, and North Caucasus Workshop 2000 " "The Lithosphere of the Southern EEC and its Marginâ•: 13-15 October 2000 Gurzuf (Yalta), Ukraine

BESUTIU L., PASHKEVICH I., ORLYUK M., BESUTIU G., NEAGA V. Consistent geomagnetic images over the SW junctions of EEC
BESUTIU L., Geophysical insights on the southwest margin of EEP
3-rd UNIGRACE Working Conference: 14-15 April, 2000, Sofia, Bulgaria
ROSCA VI., BESUTIU, L. 1999 Romanian Annual Progress Report for the UNIGRACE Project
SEG/EAGE/RSG Bucharest 2000-«International Geophysical Conference & Exposition»: 10-14 April 2000 Bucharest, Romania
BESUTIU L., NICOLESCU A., Geophysical setting of North Dobrogea, Romania

1999

EUROPROBE PANCARDI, GeoRift and TESZ International Conference: «Dobrogea an interface between EEP and CEP»: 26-30 September, 1999, Tulcea, Romania
BESUTIU L., NICOLESCU A., Old and new geophysical images within the North Dobrogea Orogen

1998

23-nd EGS General Assembly, 20-24 Aprilie 1998, Nice, France
BESUTIU L. On the normal geomagnetic fields (NGF). Modeling and understanding
BESUTIU L., NICOLESCU, A., CRISTEA, P., STANCHIEVICI, B. Combined geophysical research within North Dobrogea Orogen
National Institute for Research and Design Danube Delta The VII-th Annual Session for Scientific Communications: 11-14 Mai 1998 Tulcea, Romania
BESUTIU L. New models of the geological structure of the southern Lake Razim area according to geophysical data interpretation
3-rd International Conference on the Petroleum Geology and Hydrocarbon Potential of the Black and Caspian Seas Area: 13-15 September, 1998 Neptun-Constanta, Romania
BESUTIU L. Geomagnetic and gravity-based models of the geological structure of the transient zone between the onshore Northern Dobrogea and the Black Sea offshore

1997

Romanian Academy / Romanian Society of Geophysics The XX-th National Symposium for Applied Geophysics: february 1997, Bucharest
BESUTIU L., NICOLESCU A., CRISTEA P., STANCHEVICI B. Cercetari geofizice în arealul nordic al Orogenului Nord-Dobrogean

1996

GIR Jubilee Conference: «90 years since the establishment of the Geological Institute of Romania» June, 1996 Bucharest, Romania
BESUTIU L. Northern Dobrogea shallow waters geophysical investigations. 10 years of field research

1995

RSG International Geophysical Symposium and Technical Exhibition: October, 1995 Bucharest, Romania
BESUTIU L., ROGOBETE M. On the normal geomagnetic fields within confined areas. Their modeling and understanding
BESUTIU L., BESUTIU GEORGETA On the achievement of the composite geomagnetic maps. The national magnetic map of Romania
BESUTIU L., NICOLESCU A., ROSCA VL. Tentative underground gravity within Altan Tepe mine. A feasibility study (Poster)

1994

AI XVII-lea Simpozion de Fizica Pamantului si Geofizica Aplicata: Academia Romana si Societatea Romana de Geofizica, Bucuresti, noiembrie 1994
BESUTIU L., NICOLESCU A., SVORONOS D., VIHRISTENCU M. Geological setting of the Dunavatu-Dranov area according to the geophysical and biogeophysical data

1992

Primul Simpozion de Geofizica Aplicata al Societatii Romane de Geofizica : Academia Romana si Societatea Romana de Geofizica, Bucuresti, octombrie 1992
BESUTIU L., ROSCA VL., NICOLESCU A., SVORONOS D., Magnetic research over the areas covered by shallow waters. Sinoe Lake

1991

AI XVI-lea Simpozion de Fizica Pamantului si Geofizica Aplicata: Acad. Romana; Bucuresti, decembrie 1991
BESUTIU L., NICOLESCU A., SVORONOS D. Cercetari magnetometrice si biogeofizice integrate în

investigarea geologica

BESUTIU L.; ROSCA VL., NICOLESCU A., SVORONOS D. Cercetari magnetometrice în zone acoperite de ape de mica adancime. Lacurile Golovita si Zmeica

1989

AI XV-lea Simpozion de Fizica Pamantului si Geofizica Aplicata: Acad. Romana; Bucuresti, iunie 1989

BESUTIU L., IONESCU G. Asupra modelarii campului geomagnetic normal cu ajutorul seriilor de puteri

BESUTIU L., ROSCA VL., MARAN C. Cercetari magnetometrice în zone lacustre si deltaice din Dobrogea de Nord. Lacul Babadag

1988

A III-a Consfatuire Nationala de Geodezie Comisia Nationala de Geodezie si Geofizica, Bucuresti, dec. 1988

VISARION M., BESUTIU L., ROSCA VL., NICOLESCU A., PLACINTA C., GULIE N., ALEXANDRU F. Consideratii preliminare asupra realizarii retelelor gravimetriche de stat ale Romaniei

1987

AI XIV-lea Simpozion de Fizica Pamantului si Geofizica Aplicata: Acad. Romana; Bucuresti, iulie 1987

BESUTIU L., BESUTIU GEORGETA Reteaua magnetica de sprijin a Romaniei

1985

AI XIII-lea Simpozion de Fizica Pamantului si Geofizica Aplicata: Acad. Romana; Bucuresti, martie 1985

BESUTIU L., BESUTIU GEORGETA Reflectarea variatiei seculare în harta componentei verticale a campului geomagnetic pe teritoriul roman

1984

AI XXVII-lea Congres Mondial al Geologiei, Moscova, august 1984

BESUTIU L., The reflection of the basaltic layer of the Earth's crust in the regional anomaly of the geomagnetic field on the Romanian territory

1981

AI XII-lea Simpozion de Fizica Pamantului si Geofizica Aplicata: Acad. Romana; Bucuresti, decembrie 1981

BESUTIU L. Asupra semnificatiei anomaliei geomagnetice de pe flancul de nord al Muntilor Parang

AI XII-lea Congres al Asoc. Geol. Carpato-Balcanice: Bucuresti, septembrie 1981

AIRINEI ST., STOENESCU SC., VELCESCU G., ROMANESCU DR., VISARION M., ROTH M., RADAN S., BESUTIU L., BESUTIU G. Carte de l'anomalie magnétique pour le territoire de la Roumanie

Articles: 71

Besutiu, L., 2009. Geodynamic and seismotectonic setting of the SE Carpathians and their foreland, Integrated research on the intermediate depth earthquake genesis within Vrancea zone, In "Integrated research on the intermediate depth earthquake genesis within Vrancea zone", Besutiu, L. (Ed.), Vergiliu Publishing House pp.233-248. ISBN 978-973-7600-59-2.

Besutiu, L. and Zlăgnan, L., 2009. Geodynamic considerations on the space-time migration of the Vrancea intermediate-depth seismicity, Integrated research on the intermediate depth earthquake genesis within Vrancea zone, In "Integrated research on the intermediate depth earthquake genesis within Vrancea zone", Besutiu, L. (Ed.), Vergiliu Publishing House pp.140-152. ISBN 978-973-7600-59-2.

Besutiu, L., Radulian, M., Zlăgnan, L., and Atanasiu, L., 2009. Some peculiarities of the seismicity within the bending zone of the East Carpathians, Integrated research on the intermediate depth earthquake genesis within Vrancea zone, In "Integrated research on the intermediate depth earthquake genesis within Vrancea zone", Besutiu, L. (Ed.), Vergiliu Publishing House pp.36-111. ISBN 978-973-7600-59-2.

Besutiu, L., 2009. Geodynamic and seismotectonic setting of the SE Carpathians and their foreland. Integrated research on the intermediate depth earthquake genesis within Vrancea zone, Integrated research on the intermediate depth earthquake genesis within Vrancea zone, In Besutiu, L. (Ed.), Vergiliu Publishing House pp.233-248 .ISBN978-973-7600-59-2.

Tondi, R., Achauer, U., Landes, M., Davi, R., and Besutiu, L., 2009. Unveiling seismic and density structure beneath the Vrancea seismogenic zone (Romania), Journal of Geophysical Research, vol. 114, B11307,

Besutiu, L., 2009. Considerations on the time-consistency within large-scale composite geomagnetic maps , Revue Roumaine de Geophysique, tome 52-53, pag. 76-88, 2009

Mitrofan, H., Marin, C., Zugravescu, D., Tudorache, A., Besutiu, L., Anghelache, M., and Radu, M., 2009. Na-K-Mg geothermometer signatures of some Vrancea significant earthquakes, Integrated research on the intermediate depth earthquake genesis within Vrancea zone, pp. 219-232, ISBN 978-973-7600-59-2

Besutiu, L., Zlaganean, L., Mitrofan, H., Sabau, G., Radulian, M., Rus, T., Zledniski, M. , 2009. Integrated research on the intermediate depth earthquakes genesis within Vrancea zone, An Introductory to the INDEGEN project: in Besutiu, L. (Ed.), 9-28, ISBN 978-973-7600-59-2

Ionescu, C., Hoeck, V., Tomek, C., Koller, F., Balintoni, I., and Besutiu, L., 2008. New insights into the basement of the Transylvanian Depression (Romania) , Lithos, Lithos, doi:10.1016/j.lithos. 2008.06.004, ISSN: 0024-4937

Mitrofan, H., Marin, C., Zugravescu, D., Tudorache, A., Besutiu, L., and Radu, M., 2008. Transients of Giggenbachs Na-K-Mg-Ca Geoindicators preceding the 27 October 2004, Mw=6.0 earthquake in Vrancea area (Romania) , Terra Nova, Vol. 20, No. 2., 87-94

Besutiu, L., and Zlaganean, L., 2006. Vrancea Intermediate Depth seismicity within the Geodynamic Framework of the SE Carpathian Foreland, Geodynamic studies in Romania - Vrancea zone. Monograph compiled in the frame of the Project CERGOP-2/Envirent. (Sledzinski et al., Eds.), Reports on Geodesy, no.5 (80), 399-405, Warszawa

Besutiu, L., and Cadicaneanu, N., 2006. Geodynamic considerations on the space-time migration of the Vrancea intermediate-depth seismicity, Geodynamic studies in Romania - Vrancea zone. Monograph compiled in the frame of the Project CERGOP-2/Envirent. (Sledzinski et al., Eds.), Reports on Geodesy, no.6 (81), 17-42, Warszawa

Besutiu, L., 2006. Alternative geodynamic model for Vrancea intermediate-depth seismicity: the unstable triple junction, Geodynamic studies in Romania - Vrancea zone. Monograph compiled in the frame of the Project CERGOP-2/Envirent. (Sledzinski et al., Eds.), Reports on Geodesy, no.6 (81), 17-42, Warszawa

Besutiu, L., Orlyuk, M., Demetrescu, C., Pashkevich, I., Atanasiu, L., Maksimchuk, V., and Zlaganean, L. , 2006. Consistent geomagnetic images cross-over the state borders between Romania and Ukraine, Geophysical Journal, 3, t. 28, 78-87, Kiev

Rus, T., Ghita, D., Buse, I., Besutiu, L., Stoian, I., Stanescu, G., Nacu, V. , 2006. Report of the activities performed within the CERGOP-2 project in Romania, Reports on Geodesy, Nr. 3(78), pp.229-252, Warszawa 2006

Besutiu, L., Horomnea, M., Zlaganean, L. , 2006. Past to present geodynamic investigations in Romania by using geodetic approaches:: in Rus, T. (Ed.) Geodynamic Studies in Romania â€“ Vrancea Zone. , Reports on Geodesy, no.6 (81), 157-189, ISSN 0867-3179, Warszawa

Besutiu, L., Cadicaneanu, N., Zlaganean, L. , 2006. Geodynamic considerations on Space-time Migration of the Vrancea intermediate-depth seismicity: in Sledzinski et. al (Eds) Geodynamics of the Balkan Peninsula â€“ A Monograph, Reports on Geodesy, no.5 (80), 393-399, ISSN 0867-3179, Warszawa

Besutiu, L., Zlaganean, L., Horomnea, M. , 2006. Lithosphere Dynamics, Crust Deformation and Non â€“Tidal Gravity Changes across Major Lithosphere Boundaries on the Romanian Territory: in Sledzinski et. al (Eds) Geodynamics of the Balkan Peninsula â€“ A Monograph, Reports on Geodesy, no.5 (80), 423-429, ISSN 0867-3179, Warszawa

Besutiu, L., Zugravescu, D. , 2006. Considerations on the Black Sea Opening and and related geodynamic echoes on its NW inland as inferred from geophysical data interpretation: in Rus, T. (Ed.) Geodynamic Studies in Romania â€“ Vrancea Zone. A Monograph, Reports on Geodesy, no.6 (81), 269-287, ISSN 0867-3179 Warszawa

Besutiu, L., Zugravescu, D. , 2006. Considerations on the Black Sea Opening and its Seismotectonic Consequences: in Sledzinski et. al (Eds) Geodynamics of the Balkan Peninsula â€“ A Monograph, Reports on Geodesy, no.5 (80), 429-435, ISSN 0867-3179

Besutiu, L., Atanasiu, L., Damian, A., Horomnea, M., and Zlaganean, L., 2005. Considerations on the SE extent of the Tornquist-Tesseyre zone on the Romanian territory, Journal of the Balkan Geophysical Society, vol. 8, pp. 129-132, Suppl.1,

Besutiu, L., Zlaganean, L., and Horomnea, M., 2005. NON-tidal gravity changes across major lithosphere boundaries on the Romanian territory, Journal of the Balkan Geophysical Society, vol. 8, pp. 237-240, Suppl. 1

Besutiu, L., Dordea, D., Gorie, J., and Sprinceana, V., 2005. Geophysical setting of the deep well 6042 Deleni in central Transylvania-Romania , Revue Roumaine de Geophysique, vol. 49, pp. 73-85, ISSN 1220-5303

Beklemishev, A.B., Budanov, V.G., Besutiu, L., Sava, C.S., and Zugravescu, D., 2005. Recent dynamics of East Romania fault zones revealed by 3C micro seismic screenings , Journal of the Balkan Geophysical Society, Suppl., no. 8, pp. 60-63, ISSN 1302 -1672

Budanov, V.G., Zugravescu, D., Sava, C.S., Besutiu, L., Leontiev, V.I., and Dubovscov, V. B., 2005. Rational geophysical strategy of buried active faults delineation and monitoring: Russian Platform and Romanian Carpathians , Journal of the Balkan Geophysical Society, suppl., no. 8, 60-63, ISSN 1302 - 1672

Rus, T., Besutiu, L., Stanescu, G., Stoian, I., and Buse, I., 2005. CERGOP 2/ENVIRONMENT project. Three plate kinematics in Romania, Journal of the Balkan Geophysical Society, Suppl., vol. 8, pp. 163-166, ISSN 1302 - 1672.

Sprinceana, V., and Besutiu, L., 2005. The airborne geomagnetic map of Romnaia: a new look, Journal of the Balkan Geophysical Society, Suppl., vol. 8, pp. 163-166, ISSN 1302 - 1672.

Besutiu, L., Ghioca, G., Zlaganean, L., and Zugravescu, D., 2004. Consideration on the lithosphere compartments on the Romanian territory. Dynamics and some seismotectonic consequences, Ber. Inst. Erdwiss. K.-F.-Univ. Graz, pp.79-81, Gracz

Besutiu, L., and Zugravescu, D., 2004. Geophysical considerations on the Black Sea opening and its seismo-tectonic consequences, Revue Roumaine de Geologie et Geographie, Geophysique, vol. 48, pp. 3-13

Besutiu, L., and Zugravescu, D., 2004. Considerations on the Black Sea opening and related geodynamic echoes in its NW inland as inferred from geophysical data interpretation, Ukrainian Geologist, vol. 3, pp. 51-60, Kiev

Besutiu, L., 2003. Plate tectonics on the Romanian territory. Dynamics and some seismotectonic consequences, in Hain, V.E., Gherasimov, M.E. (Eds), Problemi geodinamiki i neftegazonosti Tcheronomorskovo-Kaspiiskovo regiona, pp. 19-23, Simferopol

Besutiu, L., Neaga, V., Nicolescu, A., Lorinczi, J., Besutiu, G., and Ilies, I. , 2003. Preliminary results on the achievement of the new gravity reference network of Republic of Moldova, International Gravity Bureau, Bull. Inf. No. 94, 29-41, Toulouse

Besutiu, L., Zugravescu, D. , 2003. Geophysical evidence on the Black Sea opening and geodynamic echoes within the NW inland: , in Hain, V.E., Gherasimov, M.E. (Eds), Problemi geodinamiki i neftegazonosti Tcheronomorskovo-Kaspiiskovo regiona, p.168-178, Simferopol

Neuner, J., Savulescu, C., Csaki, M., Besutiu, L., Moldoveanu, C. , 2003. IAG activities in Romania 1999-2003, IUGG 2003, Book of Abstracts, Sapporo

Besutiu, L., and Cadicaneanu, N., 2002. Migration of the Vrancea intermediate-depth seismicity: reality or mathematical fiction?, Studii si cercetari de geofizica, vol 40, pp.45-56

Besutiu, L., 2002. Expresia geomagnetică a unei vechi margini de placă în partea de sud a Carpaților Meridionali, Proceedings of the Annual Conference of the Geological Society of Romania "GEO2002", GEO2002

Besutiu, L., 2002. Vrancea active seismic area. Evidence toward a continental unstable triple junction, 3rd Balkan Geophysical Congress and Exhibition, Book of Abstracts, pp. 281-282

Besutiu, L., 2001. Vrancea active seismic area: a continental unstable triple junction?, Revue Roumaine de Geologie et Geographie, Geophysique, tome 45, pp. 59-72

Besutiu, L., 2001. Earthquakes and structures within northern Moesian Plate, Geologica Balcanica, vol. 31, 1-2, pp. 89-91

Besutiu, L., Neaga, V., Nicolescu, A., Besutiu, G., and lilies, I., 2001. Consideratii preliminare asupra integrarii retelelor gravimetrice ale României si Republicii Moldova, Studii si cercetari de geofizica, vol. 39, pp. 51-65

Besutiu, L., and Visarion, M. , 2001. Fracturi transcrustale pe teritoriul Romaniei, Studii si cercetari de geofizica, vol. 39, pp. 15-33, ISSN 1220 - 5265

Besutiu, L., Nicolescu, A., Zorilescu, VL. , 2001. Considerations on the gravity system of Romania, International Gravity Bureau, Bull. Inf. No. 89, 35-47, Toulouse

Besutiu, L., 2001. Moesia - A Baltica derived terrane. , PANCARDI Meeting, Sopron-Hungary, extended abstract, CP-29

Besutiu, L., 2001. Geophysical evidence concerning the TESZ path on the Romanian territory., EUROPROBE Devonian-Triassic "Time-Slice" Symposium, Moscow, extended abstract, 2-3

Besutiu, L., Pashkevich, I. , Orlyuk, M., Besutiu, G., Ivan, M., and Neaga,V. , 2000. MAGLODAN Project. The first step in merging the national geomagnetic maps of Romania , Ukraine and Republic of Moldova , Journal of the Balkan Geophysical Society, vol. 3, pp. 45-52

Besutiu, L., Nicolescu, A., Rosca, V., and Petrisor, I., 2000. Cercetari geofizice În Dobrogea de Nord si Depresiunea Predobrogeana : , Anuarul Institutului de Geologie si Geofizica, vol. 71, pp. 158-164

Rosca, VL.,and Besutiu, L., 2000. Romanian Annual Progress Report for the UNIGRACE Project, Reports on Geodesy, No. 5, (51), pp.71-76, Warszawa

Dragoi, D., Andrei, J., Besutiu, L. , 2000. A 2D gravity model within Iara - Muntele Baisorii area, Anuarul Institutului de Geologie si Geofizica, vol.71, 165-169

Besutiu, L., Nicolescu, A. , 2000. Geophysical setting of Northern Dobrogea, Romania, Rom. Geophys, Suppl. 1/2000, 256-260

Besutiu, L., 1999. New geophysics-based models of the southern Lake Razim area , Revue Roumaine de Geophysique, vol. 43, pp. 75-90

Besutiu, L., 1999. Consideratii privind modelarea cimpului geomagnetic normal. Algoritmi si semnificatii, Studii si cercetari geologice, geofizice si geografice, Geofizica, vpl. 37, PP. 39-59

Besutiu, L., Nicolescu, A. , 1999. Old and new geophysical images within Northern Dobrogea Orogenic, Romania, Rom. J. Tect. Reg. Geol, vol. 77, tome. 1, pp. 54

Besutiu, L., 1998. Geomagnetic and gravity-based models of the geological structure of the transient zone between the onshore Northern Dobrogea and the Black Sea offshore, Geo-Eco-Marina, Suppl. to Geo-Eco-Marina, vol. 3, pp. 71-74

Besutiu, L., Dimitriu, R.G., Nicolescu, A., Svoronos, D., and Vihristencu, M., 1996. Shallow waters geophysical and biogeophysical investigations, Anuarul Institutului de Geologie si Geofizica, No. 69, partea I

Besutiu, L., Rosca, V., and Gulie, N. , 1994. On the reference gravity networks of Romania, International Gravity Bureau, Bull. Inf. No. 73, pp. 35-41, Toulouse

Besutiu, L., Rosca, VL., Gulie, N. , 1994. Consideratii asupra retelelor gravimetrice de referinta ale României, Revista de Geodezie, Cartografie, Cadastru, vol 3, tome 1, pp. 3-15

Besutiu, L., and Besutiu, G., 1994. On the achievement of composite geomagnetic maps. The national magnetic map of Romania , Revue Roumaine de Geophysique, vol. 38, pp.85-91

Besutiu, L., Rosca, VL., Nicolescu, A., Svoronos, D., and Petrisor, I., 1993. Magnetics within areas covered by shallow waters. Lakes Golovita and Zmeica, Revue Roumaine de Geophysique, vol. 37, pp. 89-93

Besutiu, L., Rosca, VI., Maran, C. , 1993. Prospectiuni magnetometrice În arii acoperite de ape de mica adancime. Lacul Babadag , Roumanian Journal of Geophysics, vol. 16, pp. 9-14

Besutiu, L., Nicolescu, A., Svoronos, D., and Vihristencu, M., 1993. Geological setting within Dunavatu-Dranov area according to the geophysical and biogeophysical data , Revue Roumaine de Geophysique, vol. 37, pp. 95-103

Besutiu, L., Nicolescu, A., and Svoronos, D. , 1993. Integrated magnetics and biogeophysical research in geological investigation, Revue Roumaine de Geophysique, vol. 34, pp. 97-102

Besutiu, L., and Besutiu, G., 1988. Reflectarea variatiei seculare a cîmpului geomagnetic în harta componentei verticale a cîmpului geomagnetic pe teritoriul român, Studii si cercetari geologice, geofizice si geografice, Geofizica, seria D, vol. 15, pp. 35-48

Besutiu, L., and Besutiu, G., 1988. Asupra filtrarii cîmpurilor potențiale cu ajutorul proceadeului mediilor mobile si al continuarii în semispatiul superior , Studii si cercetari geologice, geofizice si geografice, Geofizica, seria d, vol. 15, pp.144-149

Besutiu, L. and Besutiu, G., 1987. The magnetic control network of Romania, Studii si cercetari geologice, geofizice si geografice, Geofizica, seria D, vol. 25, pp. 28-33

Besutiu, L., 1986. Asupra estimarii calitatii prospectiunilor magnetometrice , Studii si cercetari geologice, geofizice si geografice, Geofizica, seria D, vol. 14, pp.27-34

Besutiu, L., 1986. Structura flancului nordic al masivului Sebes în lumina unor date geofizice recente, Studii si cercetari geologice, geofizice si geografice, Geofizica, seria D, vol. 14, pp. 95-109

Airinei, St. , Stoenescu, Sc., Velcescu, G., Romanescu, D., Visarion, M., Radan, S., Roth, M., Besutiu, L., and Besutiu, G. , 1985. Distributia anomalilor magnetice DZa pe teritoriul României, Studii si cercetari geologice, geofizice si geografice, Geofizica, vol. 23, pp.12-19

Besutiu, L., 1984. Cîteva consideratii asupra interpretarii datelor obtinute cu ajutorul magnetometrelor protonice , Studii si cercetari geologice, geofizice si geografice, Geofizica, Seria D, vol. 22, pp. 63-68

Besutiu, L., 1984. The reflection of the basaltic layer of the Earth's crust in the regional anomaly of the geomagnetic field on the Romanian territory , Anuarul Institutului de Geologie si Geofizica, vol. LXIV, pp. 361-368

Airinei, St., Stoenescu, Sc., Velcescu, G., Romanescu, D., Visarion, M., Radan, S., Roth, M., Besutiu, L., and Besutiu, G. , 1983. La carte de l'anomalie magnétique DZ pour le territoire de la Roumanie, Anuarul Institutului de Geologie si Geofizica, ser. Geofiz., Hidrogeol. si Geol. Ing., vol. LXIII, pp. 5-11

Abstracts: 10

BESUTIU, L. 2001. Moesia - A Baltica derived terrane . PANCARDI Meeting, Sopron-Hungary, extended abstract, CP-29

BESUTIU, L. 2001. Geophysical evidence concerning the TESZ path on the Romanian territory . EUROPORBE Devonian-Triassic "Time-Slice" Symposium, Moscow , extended abstract, 2-3

BESUTIU, L. 2002. Vrancea active seismic area. Evidence toward a continental unstable triple junction: 3rd Balkan Geophysical Congress and Exhibition: Book of Abstracts, 281-282

Besutiu, L., and Atanasiu, L. 2002. Geophysical consideration on the Tornquist-Teisseyre zone extent on the romanian territory, "Realizările în perspectiva geologia și paleontologia românească" (sesiune dedicată profesorului Iustinian Petrescu la împlinirea a 60 de ani), Cluj-Napoca, România, 31mai-1iunie2002.

Besutiu, L., Atanasiu, L., Damian, A., and Zlaganean, L. 2007. Large scale features of the south- easternmost TTZ as inferred from geophysical data. XXIV International Union of Geodesy and geophysics (IUGG 2007), 01-13 July, Perugia, Italy.

Atanasiu, L., Besutiu, L. 2008. Gravity-based models of the northern Moesian Plate, EGU General Assembly 2008, 13-18 april Vienna, Austria

Atanasiu, L., and Besutiu, L. 2008. Gravity models of the Vrancea active seismic zone, 33rd International Geological Congress (IGG 2008), 06-14 august., Oslo, Norway

Besutiu, L., Atanasiu, L., Zlaganean, L., Tumanian, M., Mitrofan, H., Radulian, M., Popa, M., Rogozea, M., Rus, T., Neuner, H., Säfbäfu, G., Negulescu, E., and Baltres, A. 2008. Proiectul INDEGEN – o abordare multidisciplinara pentru studiul seismicitatii de adancime intermediara din zona Vrancea, Conferinta anuala a SGR, 4-5 octombrie 2008, Bucuresti.

Besutiu, L., Zlaganean, L., Atanasiu, L., Sgărciu, V., Măfdălin, V., Stelea, I., Cucu, G., Soare, A., Ivan, M., and Niculescu, B. 2009. A space-time consistent national airborne geomagnetic map of Romania, a XI-a Adunare Stiintifica IAGA (International Association of Geomagnetism and Aeronomy), care a avut loc la Sopron, Ungaria. in perioada 23-30 august 2009

Scientific Projects

INTERNATIONAL FUNDING

- î,§ 2010-2013 CYBERDYN: Cyberinfrastructure for Geodynamic Studies Related to the Vrancea Seismogenic Zone. EC funded project through the Structural Funds Programme, grant no. 182/2010; project contact person, research & management activities
- î,§ 2009-2011 SAFER: Services and Applications For Emergency Response. EC funded project through the FP7 Space programme, grant no. 218802/2008; Romanian project representative
- î,§ 2009-2011 INRAF: Integrated research of some active faults located in the NW inland of the Black Sea on the Romanian and Ukrainian territories. A joint-venture of the IGAR in Bucharest and IG-NASU in Kiev, jointly funded by the Romanian Academy and National Academy of Sciences of Ukraine; Romanian project leader
- î,§ 2007-2008 Geodynamic evolution of the lithosphere within the south-eastern part of East Carpathians: A joint-venture of the IGAR and EOST (Institute de Physique du Globe du Strasbourg); Romanian project leader
- î,§ 2006-2007 TRIDEC: 3D modelling of the hidden structure of the crust beneath Alpine tectonics of the East Carpathians based on geophysical data interpretation, with emphasizing on the Vrancea active seismic zone: geodynamic aspects. Funded through the bi-lateral Agreement for scientific cooperation between the Romanian and Ukrainian Governments; Romanian project leader
- î,§ 2000-2001 UNIGRACE: Unification of the Gravity Systems of the Countries from Central and East Europe: EC funded project through the COPERNICUS program; Romanian project representative

PROJECTS FUNDED BY ROMANIAN NATIONAL BODIES

- î,§ 2009 Integrated research on the surface echoes of the deep geodynamic processes in the lithosphere of the Vrancea region: Romanian Academy priority program, theme 7.2/2009; project responsible
- î,§ 2008 Using 2-D and 3-D interpretative techniques for modelling structure and dynamics of the active seismic zone located in the bending area of East Carpathians: Romanian Academy priority program, theme 7.2/2008; project responsible
- î,§ 2007 Integrated research on the structure and dynamics of the contact between the Moesian micro-plate and Intra-Carpathian microplate. Consequences on the seismicity of the Vrancea zone; Romanian Academy priority program, theme 7.2/2007: project responsible
- î,§ 2006-2008 INDEGEN: Integrated research on the intracontinental intermediate-depth earthquake genesis within Vrancea zone: Romanian National Authority for Scientific Research Program CEEX-2/2006, grant no. 732/2006; project director
- î,§ 2006-2008 DYGEF: Research on the space-time dynamics of the Earth's magnetic field aimed at achieving consistent geomagnetic models for the Romanian territory integrated into European and Globalframe work: Romanian National Authority for Scientific Research Program CEEX-2/2006, grant no. X2C18/2006; project director
- î,§ 2006 Complex research on the structure and dynamics of the main lithospheric contacts on the Romanian territory. Consequences on the seismicity of the Vrancea region. Romanian Academy priority program, theme 7.1/2006: project responsible
- î,§ 2005 Complex geological, geophysical, geodetic and geo-morphological studies for revealing structure and dynamics of the lithosphere of the tectonic compartments involved in the seismic activity of the Vrancea zone: Romanian Academy priority program, theme 7.1/2005; project responsible
- î,§ 2004 Study on the evolution of some parameters potentially connected to the dynamics of some tectonic elements mainly located within Vrancea active geodynamic zone" Romanian Academy priority program, theme 7.1/2004; project responsible
- î,§ 2004 The construction of a cross-border model on the structure and dynamics of the SW margin of the East European Plate in Ukraine and Romania. Integration of the national geomagnetic standards: Romanian Academy grant GAR 92/2004; project director
- î,§ 2003-2006 MODEST: Space-time modelling of the crust deformations within active geodynamic zones through the integration of terrestrial and space data: Romanian National Authority for Scientific Research Program CERES, grant no. 3-39/2003; project director
- î,§ 2003 The construction of a cross-border model on the structure and dynamics of the SW margin of the East European Plate in Ukraine and Romania. The achievement of the joint database: Romanian Academy grant GAR 96/2003; project director
- î,§ 2003 Study on the evolution of some parameters causally connected to the dynamics of the tectonic blocks and, in particular, to the Vrancea active seismic zone: Romanian Academy priority program, theme 7.1/2003; project responsible

- î,§ 2001-2003 Remote-sensing studies on the gravity, geomagnetic and geothermal anomalies for better understanding processes taking place within the Vrancea seismic zone: National Authority for Scientific Research Program AEROSPATIAL, grant 11024/2001-2003; project manager
- î,§ 2001 Complex research on the connections between structure and dynamics of the lithosphere and the earthquakes occurrence within the areas of the large hydro-power plant dams: National Authority for Scientific Research Program CERES 2001; project author
- î,§ 2000-2001 Joining national gravity reference networks of Romania and Republic of Moldova and their integration within the EU gravity system: National Authority for Scientific Research Program ORIZONT 2000, grant 3318/2000; project director
- î,§ 1998-2000 Research for merging national geomagnetic maps of Romania, Ukraine and Republic of Moldova: Romanian Academy grant GAR 82/1998; project director

Profesional Service

reviewer Natural Hazards
 reviewer Acta Geophysica
 reviewer Studii si Cercetari de Geofizica
 reviewer Revue Roumaine de Geophysique

Awards and Scholarships

- 2010 CNCSIS prize for the paper "Persistent pre-seismic signature detected by means of Na-K-Mg geothermometry records in a saline spring of Vrancea area (Romania)"
- 2009 CNCSIS prize for the paper "New insights into the basement of the Transylvanian Depression (Romania)"
- 1997 Romanian Society of Geophysics Award "Sabba Stefanescu" for Complex geophysical investigations in Northern Dobrogea
- 1987 Romanian Academy Award "Gh. Munteanu Murgoci" for the achievement of the Romanian Geomagnetic Reference Network

Researchers/Institutions I collaborate with:

- Dr. Juha V. KORHONEN, Geological Survey of Finland (GTK)
 Dr. Vlad Constantin MANEA, Universidad Nacional Autonoma de Mexico (UNAM)
 Dr. Marina MANEA, UNAM
 Dr. Valentyn MAKSYMCHUK, Carpathian Branch of the Institute of Geophysics, National Academy of Sciences of Ukraine (IG-NASU) in Lvov
 Dr. Mykhailo ORLIUK, IG-NASU in Kiev
 Dr. Inna PASHKEVICH, IG-NASU in Kiev
 Dr. Sabine SCHMIDT, Institut für Geowissenschaften, Christian-Albrecht University (CAU) in Kiel
 Dr. Vitaly STAROSTENKO, IG-NASU in Kiev
 Dr. Rosaria TONDI, Instituto Nazionale di Geofisica e Volcanologia (INGV) in Bologna
 Prof. Dr. Uli ACHAUER, Institute du Physique du Globe (IPG) in Strasbourg
 Prof. Dr. Hans-Jurgen GÄETZE, Institut für Geowissenschaften, CAU in Kiel
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- Dr. Albert BALTRES, Geological Institute of Romania (IGR) Bucharest
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 Dr. Bogdan NICULESCU, Bucharest University
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 Dr. Gavril SABAU, IGR Bucharest
 Dr. Ioan SEGHEDEI, IGAR Bucharest
 Dr. Dumitru STANICA, IGAR Bucharest
 Dr. Mircea RADULIAN, NIEP Bucharest
 Dr. Ioan RUS, Technical University for Civil Engineering Bucharest
 Dr. Ioan STELEA, IGR, Bucharest
 Dr. Mihai TATU, IGAR Bucharest
 Prof. Dr. Marian IVAN, Bucharest University

Miscellaneous

Membership

- â™| American Geophysical Union (AGU)
 - â™| Society of Exploration Geophysicists (SEG)
 - â™| European Geophysical Union (EGU)
 - â™| Balkan Geophysical Society (BGS)
 - â™| Brazilian Geophysical Society (SBGf)
 - â™| Romanian Society of Geophysicists (RSG): founding member
 - â™| Geological Society of Romania (SGR)
 - â™| Geological Foundation Ion Atanasiu (GFIA): founding member
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Date: March 28, 2025

Dr. Lucian Besutiu