

## CURRICULUM VITAE

### PERSONAL INFORMATION

Name **BEDELEAN HORIA-ȘTEFAN**  
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Nationality Romanian

### PROFESSIONAL EXPERIENCE

- Period October 1989-September 1991
- Employer Baia de Arieș division, TRANSGEX Cluj
- Type of activity Geological prospecting
- Job/position Geological engineer
- Activities and responsibilities Geological prospecting and exploration (surface and underground)
  
- Period October 1991-October 1992
- Employer „Babeș-Bolyai” University Cluj Napoca
- Type of activity Higher education
- Job/position Teaching Assistant
- Activities and responsibilities Laboratories, seminars, practical works
  
- Period October 1992- October1996
- Employer „Babeș-Bolyai” University Cluj Napoca
- Type of activity Higher education
- Job/position Asistent Universitar
- Activities and responsibilities Laboratories, seminars, practical works
  
- Period October 1996 - present
- Employer „Babeș-Bolyai” University Cluj Napoca
- Type of activity Higher education
- Job/position Lecturer
- Activities and responsibilities Courses, laboratories, seminars, practical works

### MANAGEMENT POSITIONS

- Period 2012-present
- Employer „Babeș-Bolyai” University Cluj Napoca, Faculty of Biology and Geology
- Type of activity Administrative
- Job/position Member of the Geology Department Council
  
- Period 2016 -2025
- Employer „Babeș-Bolyai” University Cluj Napoca
- Type of activity Administrative
- Job/position Vice-Dean Prodecan, Faculty of Biology and Geology
- Activities and responsibilities Responsible for quality assurance, regulations and student

relations, Responsible for research activity

- Period 2025 - present
- Employer „Babeş-Bolyai” University Cluj Napoca
- Type of activity Administrative
- Job/position Interim Dean, Faculty of Biology and Geology
- Activities and responsibilities Academic, administrative, strategic and financial management

#### DEEGREES, DIPLOMAS

- Period September 1984 – June 1989
- Name and type of educational institution „Babeş-Bolyai” University Cluj Napoca, Faculty of Biology, Geography and Geology, Geological and Geophysical Engineering section
- Qualification Geological engineer
- Period September 1994 – March 1999
- Name and type of educational institution „Babeş-Bolyai” University Cluj Napoca, Faculty of Biology, Geography and Geology, Geological and Geophysical Engineering section
- Qualification PhD Geology
- Period October 2004 – June 2005
- Name and type of educational institution Technical University Cluj Napoca
- Qualification Postgraduate courses: Applied Computer Science and Programming  
Programmer

#### FOREIGN LAGUAGES

- English
- Reading Very good
- Writing Very good
- Speaking Very good
- French
- Reading Good
- Writing Good
- Speaking Good

#### SOCIAL SKILLS AND COMPETENCES

Teamwork (in research)  
Communication skills (in teaching)

#### ORGANIZATIONAL SKILLS AND COMPETENCES

Organization of daily activities and workload, attention to detail and accuracy in completing tasks, ability to plan and prioritize tasks effectively, coordination of individual and team activities, management of material and information resources

#### RESEARCH SKILLS AND COMPETENCES

Petrography and mineralogy studies for non-metallic mineral substances: zeolites, clays and clay minerals, Study of volcanic tuffs, Geological mapping.

- Team Coordinator in three national projects
- Coordinator (Romanian team) - Bilateral cooperation project Romania-Greece Working Programme of S&T Cooperation

- Member in one international project and 3 national projects.
- Responsible for several research contracts with various economic partners that targeted the properties of different types of rocks.
- Scientific papers published in national and international journals in collaboration with various authors from the country and abroad
- Participant with communications at national and international scientific events

LECT.DR. HORIA BEDELEAN

8.02.2026

#### ANEXE

##### Books:

- Petrescu I. (coordinator), I.Balintoni, V.Codrea, S.Filipescu, C.Ionescu, D.Ristoiu, C.Chira, N.Har, M.Benea, C.Baciu, **H.Bedelean**, O.Barbu, M.Popa, D.C.Petrescu, C.Balica, N.Brisan, C.Ianoliu, E.Sasaran, I.Tantau, P.Dica, I.Prica – *Catastrofe geologice (Geological disasters)*, 2002, Ed.Dacia Cluj-Napoca, 215p. (ISBN 973-35-1473-X) (in romanian)
- Sîntimbrean A., **Bedelean H.**, 2004, *Roşia Montană-Alburnus Maior: cetatea de scaun a aurului românesc*, Ed.Altip Alba Iulia.
- Măicăneanu A., **Bedelean H.**, Stanca M., 2008, *Zeoliti naturali. Caracterizare si aplicatii in protectia mediului (Natural Zeolites. Characterization and applications in Environment protection)*, Presa Universitara Clujeana, 325p., (ISBN: 978-973-610-673-6) (in romanian)
- Bucur I., Balica C. **Bedelean H.**, Benea M., Chira C., Codrea V., Filipescu S., Forray F. , Gal A., Popa M., Sasaran E., Tantau I., *Repere geologice in Apuseni si sud-vestul Carpatilor Meridionali (Geological landmarks in the Apuseni Mountains and south-west Carpathians)*, 2008, Presa Universitara Clujeana, 225p. (ISBN: 978-973-610-720-7) (romanian and english)
- Sîntimbrean A., **Bedelean H.**, Bedeleian A., 2006 (ed. I) 2009 (ed. II), *Aurul si argintul Rosieii Montane (Gold and silver of Roşia Montană)*, Ed. Altip Alba Iulia, 210p (ISBN 973-117-001-4) (in romanian)
- Bedelean H.**, 2012, *Geologia zonei Poarta Mesesana – Moigrad*, Editura Cordial Lex (CNCA), Cluj Napoca, 229 p.
- Mârza I., **Bedelean H.**, Păcurar I., Săsăran E., 2021, *Concreţiunile de Feleac, simbol geologic al Clujului*, Ed. Colorama

##### Publications (selction):

- Ratschbacher L., Linzer H-G., Moser F., Strusievicz R-O., **Bedelean H.**, Har N., Mogos A., 1993, *Cretaceous to Miocene thrusting and wrenching along the central South Carpathians due to a corner effect during collision and orocline formations*, TECTONICS (S.U.A.), vol.12, No.4, p.855-873.
- Bedelean I., Nicoleta Bican, **Bedelean H.**, 1999, *Sulfatic facies in the north-western part of the Transylvanian Basin-Meses area and their genetic significance*, Rom. Journal of Mineralogy, vol.79, p.143-150
- Bedelean I., Ivan I., Stamatakis M.G., Duca V., Pop D., **Bedelean H.**, Korpos I., Racatoian P., 2000, *The production of Synthetic Wollastonite and Diopside by using silica-rich Natural Raw Materials*, - Tile&Brick International (Verlag Schmid GMBH), Vol.16, No.2, p.82-87.
- Bedelean H.**, Bedeleian A., 2001, *Contributions to the study of the alluvial gold from Valea Pianului area (Alba district)*, STUDIA Univ. Babeş-Bolyai, XXXVII/1/, p.49-56, Cluj-Napoca
- Bedelean H.**, 2004, *Study on the Diagenetic Calcareous Accumulations in a Soil Profile from Floreşti (Cluj county)*, STUDIA Univ. Babeş-Bolyai, 1, Cluj-Napoca
- Stanca M., Măicăneanu A., Burcă S., **Bedelean H.**, 2006, *Removal of some heavy metal ions from wastewaters using natural zeolites. A comparative study*, Studia Universitatis Babeş-Bolyai Chemia, LI, 2, 187-196.
- Bedelean H.**, Măicăneanu A., Burcă, Stanca M., 2009, *Removal of heavy metal ions from wastewaters using natural clays*, 2009, Clay Minerals, vol. 44-4, p 487-495
- Ioane D., **Bedelean H.**, 2010, *Ancient Gold Mining in Roşia Montană (Apuseni Mts., Romania)*, in: Natural Heritage from East to West (Evelpidou N., de Figueiredo T, Mauro F., Tecim V., Vassilopoulos eds.), Springer Verlag,Berlin Heedelberg, 95-100

- Bedelean H.**, Măicăneanu A., Burcă S., Stanca M., 2010, *Investigations on some zeolitic volcanic tuffs from Cluj County (Romania), used for zinc ions removal from aqueous solution*, Studia Universitatis Babeş-Bolyai, Geologia, 2010, 55 (1), 9 – 15
- Bedelean H.**, Măicăneanu A., Burcă S., Stanca M., 2010, *Romanian zeolitic volcanic tuffs and bentonites used to remove ammonium ions from wastewaters*, Hellenic Journal of Geosciences, Vol. 45, 23-31
- Stamatakis M.G., **Bedelean H.**, Gorea M., Alfieris D., Tziritis E., Kavouri S., 2011, *Clay-rich rocks and mining wastes for the production of lightweight aggregates with thermal insulation properties*, Refractories Worldforum, 3, p.85-92
- Măicăneanu A., **Bedelean H.**, Burcă S., Stanca M., 2011, *Evaluation of Ammonium Removal Performances of Some Zeolitic Volcanic Tuffs from Transylvania, Romania*, Separation Science and Technology, Vol. 46, Issue 10, p. 1621-1630
- Măicăneanu A., Indolean C., Burcă S., Stanca M., **Bedelean H.**, Majdik C., 2011, *Organics Removal from Aqueous Solutions Using Suspended and Immobilized Romanian Bentonites*, Studia Universitatis Babeş-Bolyai, Chemia, LXVI, 1, 81 – 93
- Măicăneanu A., **Bedelean H.\*.**, Ardelean M., Burcă S., Stanca M., 2013, *Haneş and Valea Vinului (Romania) closed mines Acid Mine Drainages (AMDs) – Actual condition and passive treatment remediation proposal*, Chemosphere, 93, 1400–1405.
- Măicăneanu A., Varodi C., **Bedelean H.**, Gligor D., 2014, *Physical-chemical and electrochemical characterization of Fe-exchanged natural zeolite applied for obtaining of hydrogenperoxide amperometric sensors*, Chemie der Erde, 74, 653–660.
- Chicinaş R., Tănase A. **Bedelean H.**, Măicăneanu A., 2016, *Characterization of Romanian Bentonitic Clays for the Removal of Dyes from Wastewater*, Analytical Letters, 49 (16), 2686 – 2701
- Pleşa Chicinaş, R., Gál, E., **Bedelean, H.**, Dărăbanţu, M., Măicăneanu, A., 2018, *Novel metal modified diatomite, zeolite and carbon xerogel catalysts for mild conditions wet air oxidation of phenol: Characterization, efficiency and reaction pathway*, Separation and Purification Technology, **2018**; 197: 36–46. <https://doi.org/10.1016/j.seppur.2017.12.050> (ISI 2016/2017: 3.359)
- Pleşa Chicinaş, R., **Bedelean, H.**, Ştefan, R., Măicăneanu, A., 2018, *Ability of a montmorillonitic clay to interact with cationic and anionic dyes in aqueous solutions*, Journal of Molecular Structure, 1154: 187–195. <https://doi.org/10.1016/j.molstruc.2017.10.038> (ISI 2016/2017: 1.753)
- Măicăneanu A., Pleşa Chicinaş R., **Bedelean H.**, 2019, *Treated diatomite for Toluidine Blue removal from wastewater. Is it worth it?*, Studia Universitatis Babeş-Bolyai Chemia Vol. LXIV, 4, 37 – 51.
- Enescu F., Irimiciuc Şt., Cimpoesu N., **Bedelean H.**, Bulai G., Gurlui S., Agop M., 2019, *Investigations of Laser Produced Plasmas Generated by Laser Ablation on Geomaterials. Experimental and Theoretical Aspects*, Symmetry-Basel, Vol. 11, Pag. 1391
- Irimiciuc St., Enescu F., **Bedelean H.**, Gurlui S., Agop M., 2020, *Space-and time-resolved optical investigations on ns-laser produced plasmas on various geological samples*, SPECTROCHIMICA ACTA PART B-ATOMIC SPECTROSCOPY, Vol. 170,
- Măicăneanu A., **Bedelean H.**, 2020, *NH<sub>4</sub><sup>+</sup> Cation exchange study on treated zeolitic volcanic tuff in fixed bed column*, Studia Universitatis Babeş-Bolyai Chemia, Vol. LXVI/3, Pag. 89 – 100.
- Agharabi A., Jeddi E.M., Lhoucine K., Har N., Ntarmouchant A., Forray F., Gourari L., Balica C., Mircescu C., **Bedelean H.**, 2025, *Hydro-chemical study and assessment of drinking and irrigation water quality in the Oued Fez watershed (Fez city and surrounding areas, Saïs Basin, Morocco)*, Environmental Advances, vol. 20, pag. 100639 – 100654
- Agharabi A., Gourari L., Karrat L., Etensohn F., Har N., Balica C., McGlue M., Mircescu C., **Bedelean H.**, Magdas D., 2025, *Paleoclimatic implications and depositional settings of Mid to Upper Holocene calcareous tufas on the Bourkaiz tufa fan, Saïs Basin, northern Morocco*, Mediterranean Geoscience Reviews, Vol., pag 1169–1194.
- Agharabi A., Etensohn F., Karrat L., Har N., Gourari L., Balica C., Mircescu C. **Bedelean H.**, Magdas D., El Mehdi Jeddi E.M., Ntarmouchant A., 2025, *Quaternary calcretes in Fez plain, Saïs basin–Morocco: Origin and paleoclimatic implications*, Rhizosphere, Vol. 36, pag. 1 - 11, 101229
- Agharabi A., Karrat L., Etensohn F. Har N., Gourari L., **Bedelean H.**, Balica C., Mircescu C., 2025, *Clay minerals origin and paleoclimate implications in quaternary deposits of the Saïs Plain, Fez-Morocco*, Scientific African, Vol. 27, e02505

## Awards

2010 „Comenius” award - Excellence in Teaching - Babeş-Bolyai University

2015 – Excellence Award in Teaching - Babeş-Bolyai University