

PHILIPPE CLAEYS

ARCHAEOLOGY, ENVIRONMENTAL CHANGES, & GEO-CHEMISTRY
VRIJE UNIVERSITEIT BRUSSEL (VUB)
PLEINLAAN 2, B-1050 BRUSSEL, BELGIUM
phclaeys@vub.be
<https://amgc.research.vub.be/prof-dr-philippe-claeys>

CURRENT POSITION

- Full Professor, Vrije Universiteit Brussel (VUB), Brussels, Belgium. Director of the VUB Large Research Group (LRG): *Archaeology, Environmental changes & Geo-Chemistry, 2001 - present* (AMGC, currently ~ 110 scientists, see <https://amgc.research.vub.be/home>)
- Guest Professor at Ghent University, Department of Geology & Soil Sciences 2009 – present
- Guest Professor at University of Liège, Department of Geology, 2008 – present

EXPERTISE

Planetary sciences: impact processes, meteorites, global environmental & climate changes, isotope geology, geochemistry, sedimentology, event stratigraphy, paleoenvironmental reconstructions, geo-bio-archaeology, environmental geology, urban-water management.

ACHIEVEMENTS

- Set up a large geochemistry analytical lab at the VUB for major, trace, ultra-trace elements and isotopic ratios, secured funding for its maintenance, expansion and development & recruited high-quality researchers with diverse backgrounds from all over the world.
- Over 250 publications in Q1 or Q2 journals, including Science (7), Nature (3) & PNAS (8), book editor
- Trained > 50 PhD's & Post-docs, many now holding permanent academic positions worldwide.
- Establish Belgian meteorite searches in Antarctica using Princess Elisabeth as logistic base.
- Actively involved in ICDP (International Continental Scientific Drilling Program, <https://www.icdp-online.org/home/>), participation in drilling projects; current president ICDP Executive Council

EDUCATION

- Ph.D. in Geology and Geophysics, 1993, University of California at Davis, California, USA. Advisors: Profs. Stanley V. Margolis (UC Davis, deceased) & Walter Alvarez (UC Berkeley)
- Master of Science in Geology, 1989, University of California at Davis, California, USA.
- Licence en Science Géologiques et Minéralogiques, (eq. Bachelor of Science in Geology), 1984, Université Libre de Bruxelles, Brussels, Belgium.

POSITIONS HELD

- September 2010 – June 2021, Guest Professor at University of Leuven, Department of Earth & Environmental Sciences,
- September 2016 – December 2017, Visiting Professor, Dept. of Earth, Ocean and Atmospheric Sciences, University of British Columbia, Canada, & Peter Wall Institute for Advanced Studies International Visiting Research Scholar (Sabbatical).
- January 1999 – September 2000, Acting Director of the Institute of Mineralogy, Museum für Naturkunde, Berlin, Germany (± 70 staff members), member of the Museum board of directors.
- September 1998 – January 2001, Guest Lecturer, Institut fuer Geowissenschaft, Universitaet Potsdam, Potsdam, Germany.
- January – August 1998 Visiting professor, Ecole des Mines de Paris, France (Sabbatical)

- January 1996 – January 2001, Senior Staff Scientist and Head of Analytical Laboratories, Museum für Naturkunde, Berlin, Germany
- November 1993 – December 1995, Research Geologist, Department of Earth & Planetary Science, University of California at Berkeley, Berkeley, California, USA
- January 1993 – October 1993, Postdoctoral Research Geochemist, Institute of Geophysics & Planetary Physics, University of California at Los Angeles, Los Angeles, California, USA
- Summer 1992, Exploration Geologist, Pecten International Co. (now Shell Exploration and Production) Houston, Texas, USA. Structure, sedimentology, and stratigraphy of West Africa passive margin
- Summer 1991, Research Geologist, Shell Development Co. (now Shell Exploration and Production), Houston, Texas, USA. Bellaire Research Center, Basin Analysis Group. Sedimentology, clay mineralogy and stable isotopic composition of Gulf of Mexico deep-water sediments
- 1989 – 1991, Research assistant: Isotope division, Lawrence Livermore National Laboratory, Livermore, California. Developed methods for geochemical analyses using inductively coupled plasma mass spectrometry with applications for water, soil, and sediments.
- July 1986 – December 1992, Teaching or Research Assistant (Ms & PhD candidate), Department of Geology, University of California at Davis, Davis, California, USA. Courses Taught: Geochemistry, Planetary Geology, Sedimentology-Stratigraphy, Petrology, Oceanography, and Introduction to Geology.
- March 1985 - May 1986, Military duties (mandatory) in Belgian Navy as scientist on board oceanographic vessel Belgica, monthly campaigns in North Sea, Bay of Biscay, North Atlantic, for sediment sampling, side scan sonars, physical & chemical oceanography measurements, fisheries, seawater properties etc.
- June 1984 – February 1985, Research Assistant, Department of Earth and environmental sciences, Université Libre de Bruxelles, Brussels, Belgium, sedimentology of Visean collapse breccia (PhD fellowship).

GUIDANCE OF PHD STUDENTS

- CURRENT

- THOMAS DEHAIS (MS GEOLOGY, ECOLE NATIONAL SUPERIEURE DE GÉOLOGIE, NANCY 2016), Geochemistry of ejecta products (BRAINS project Funding), with Prof. Steven Goderis as joint advisor.
- FLORE VAN MALDEGHEM, (MS GEOLOGY, GHENT UNIVERSITY 2018), Petrography and geochemistry of impact microspherules, comparison with chondrules and micrometeorites (FWO Fellowship), with Prof. Steven Goderis as joint advisor.
- RACHEL SPROS (MS ARCHAEOLOGICAL SCIENCES, UNIVERSITY OF OXFORD 2019): IRP project stable isotopes signatures on Medieval human bones and teeth from Ieper (Belgium)
- GIORGIO ARRIGA (MS GEOLOGY, ROMA TRE UNIVERSITY, 2020) Long-term evolution of seismogenic faults in the central Apennines, joint PhD with Roma Tre University, with Prof. Federico Rossetti, as co-advisor
- BENJAMIN AVAKIAN (MS ENGINEERING GEOLOGY, CERGY-PARIS UNIVERSITE, 2021), Fluid circulation in sheared zones of granite bodies – application to geothermal systems for energy production, joint PhD with Cergy-Paris University, with Prof. Béatrice Ledesert, as co-advisor, funding Eutopia PhD project.
- WANG JIANPENG, (MS GEOLOGY, CHINESE ACADEMY OF SCIENCE, 2021), Chemical and isotopic characterization of Antarctic micrometeorites (Funding China Scholarship Council CSC), with Prof. Steven Goderis as joint advisor.
- NAIHUA XUE (MS GEOLOGY, NANJING INSTITUTE OF GEOLOGY & PALEONTOLOGY, 2020): Cyclostratigraphy and astrochronology of the Ediacaran & Late Carnian (Funding China Scholarship Council CSC).
- XIANYE ZHAO (MS GEOLOGY, NANJING INSTITUTE OF GEOLOGY & PALEONTOLOGY, 2023): Paleoenvironmental reconstructions (Funding China Scholarship Council CSC).
- ZHUANGSEN WANG (MS GEOLOGY, CHINA UNIVERSITY OF MINING & TECHNOLOGY, BEIJING, 2023): The Carboniferous – Permian stratigraphy and climate transition (Funding China Scholarship Council CSC).

- COMPLETED (27)

- PIM KASKES (MS GEOLOGY, VRIJE UNIVERSITEIT AMSTERDAM, 2016), Reconstructing the first moments after the K-Pg boundary impact event (FWO Fellowship), with ULB, with Prof. Steven Goderis and Prof. Nadine Mattielli ULB) as co-advisors, April 26, 2023.
- RYOGA MAEDA (MS GEOLOGY, TOKYO METROPOLITAN UNIVERSITY, 2017), Chemical and isotopic characterization of Antarctica meteorites: The chemical and isotopic effects of thermal processing and terrestrial weathering on the (re)distribution of trace elements in chondrite (EOS FWO-FNRS funding, joint PhD with ULB, co-advisor with Prof. Steven Goderis and Dr. Vinciane Debaille ULB), March 06, 2023.
- TESSI LOEFFELMANN, (MS ARCHEOLOGY, UNIV. OF DURHAM, 2014), There and back again - Mobility and burial rites in early medieval England c. AD 300-1000: An Analysis of Strontium isotopes in cremated human bones (joint PhD in Interdisciplinary studies, with Durham University, co-advisor with Prof. Janet Montgomery, Prof. Sarah Semple, both at Durham Univ. and Prof. Christophe Snoeck VUB), March 03, 2023
- CHRISTINA MAKARONA (MS CHEMISTRY, UNIV. THESSALONIKI, 2011): Geochemical proxies for the technological study of Late Bronze Age ceramics from south-western Cyprus (EU Marie Curie financing, advisor with Prof. Karin Nys as co-advisor), February 28, 2023.
- BENJAMIN JENTGEN (MS GEOLOGY, UNIVERSITÉ DE LIEGE, 2016), Histological and remodelling patterns among neosauropods in insular environments, (joint PhD, advisor with Prof. V. Fisher, University of Liège, FRIA funding), July 07, 2022.
- SIETZE DE GRAAFF (MS GEOLOGY, VRIJE UNIVERSITEIT AMSTERDAM, 2016), Making sense of Destruction: A geochemical and petrological investigation of the impact melt rocks and crystalline basement of the Chicxulub impact structure (BRAINS Funding), April 26, 2022.
- BASTIEN SOENS (MS GEOLOGY, GHENT UNIV. 2015): Petrographics and geochemical characterization of micrometeorites collection from the Sør Rondane Mountains: Nature and origin of the extraterrestrial flux to Earth (FWO fellowship), co-advisor with Prof. S. Goderis as advisor, September 17, 2021
- MATTHIAS SINNESAEEL (MS GEOGRAPHY, VUB, 2014): Astronomical cycle identification methods and their application to high-resolution Ordovician stratigraphy (FWO fellowship, joint PhD VUB-UGhent with Prof. T. Vandenbroucke), June 12, 2020.
- ALICIA VAN HAM-MEERT (MS ARCHEOLOGICAL SCIENCE, UNIVERSITY OF OXFORD, 2015), Development of non-destructive analysis protocols for the chemical and isotopic analysis of archaeological materials (joint PhD KULeuven-VUB, with Prof. P. Degryse, FWO project funding), May 06, 2019
- NIELS DE WINTER (MS GEOLOGY, UNIV. UTRECHT, 2013): Improving techniques and interpretations for reconstructing high-resolution paleoclimate in deep time from bivalve shells and tooth enamel (IWT-FWO PhD fellowship), February 22, 2019.
- KEVIN DE BONDT (MS GEOLOGY, ULB, 2005): The forgotten connections between groundwater and urban-water management policies (InnovIris fellowship), September 21, 2018.
- STEF VANSTEENBERGE (MS GEOLOGY, GHENT UNIV., 2013): Reconstruction of last interglacial and last glacial inception paleoclimate using stable isotopes and trace elements from Belgian speleothems (Funding VUB – Strategic Research), April 25, 2018.
- LINEKE WOELDERS, (MS GEOLOGY, UNIV. UTRECHT, 2013): Climate and environmental change across the Cretaceous-Paleogene boundary, May 2017, KULeuven, Co-advisor, with Prof. R. Speijer as advisor (Funding joint KUL-VUB, FWO project), May 16, 2017.
- STEPAN CHERNONOZHKIN, (MS CHEMISTRY UNIV. NOVOSIBIRSK 2011): The development and application of analytical methods based on ICP – mass spectrometry for spatially resolved, elemental, and Fe, Ni isotopic analysis of metal and silicate meteoritic material, (Joint PhD with Ghent University, Prof. F. Vanhaecke, BELSPO IUAP funding), November 7, 2016.
- JAN COENAERT, (MS ARCHEOLOGY, VUB, 2006): Sites, hinterlands, and rivers: Exploring site organization and interaction in the South-East Cyprus during the Late Bronze Age, (Co-advisor, Prof. Karin Nys Dept. Archeology, as advisor, VUB Funding), October 12, 2016.
- NADIA VAN ROOSBROECK, (MS GEOLOGY, KULEUVEN, 2012): The record of primitive IIE meteorites: Implications for the formation of silicate-bearing iron meteorites, (Joint PhD with Prof. V. Debaille, ULB, BELSPO IUAP funding), December 10, 2015.

- JOKE BELZA (MS GEOLOGY, GHENT UNIV., 2010): Petrography and geochemistry of ejecta material from the K-Pg boundary Chicxulub crater (Yucatan, Mexico) (Joint PhD with Ghent University, Prof. F. Vanhaecke as co-advisor, FWO Fellowship), November 25, 2015.
- MAITE VAN RAMPENBERGH (MS GEOLOGY, GHENT UNIV, 2007): Speleothems as tools to reconstruct paleoclimates in temperate (Belgium) and semi-arid (Socotra, Yemen) regions during the Mid- to Late Holocene, (PhD fellowship), November 07, 2014.
- DAVID DE VLEESCHOUWER (MS, GEOGRAPHY, VUB 2010): The influence of orbital forcing on the Devonian extreme greenhouse climate: An approach combining time series analyses of worldwide stratigraphic signals with mathematical climate modeling, (FWO fellowship), September 08, 2014.
- ADRIANA OCAMPO: Geology and emplacement mechanism of Chicxulub crater deposits: an analogue for planetary impact ejecta, Vrije Universiteit Amsterdam (co-advisor with Prof. Jan Smit VUA), March 12, 2013
- VIRGINIE RENSON: Using lead isotopes to trace pottery provenance – Late Bronze Age Cyprus: a case-study, (VUB HOA funding), September 07, 2012.
- STEVEN GODERIS: Projectile identification in terrestrial impact structures and ejecta material, (IWT Fellowship), March 29, 2011.
- KAMAL KOLO: Microbial alteration of mineral substrates, (VUB Project funding), June 22, 2009.
- DAISY TYSMANS: Development and application of a new form-identification method for small sedimentary particles, (co-advisor Prof. Marc Van Molle, Dept. of Geography, IWT funding), March 08, 2008.
- VANESSA HEYVAERT: Geoarcheological mapping and Middle to Late Holocene paleoenvironmental reconstruction in the land of Akkad and Sumer, (co-advisor Dr. Cecile Baeteman, Belgian Geological Survey, BELSPO funding), February 05, 2007.
- SOUAD ECH-CHAKROUNI: Geochronology and Paleomagnetism of Madeira and the Desertas Islands, (co-advisor with Prof. Em. Paul Pasteels, FWO project funding), June 2004.
- ROALD TAGLE: Platinum group element distribution in impact-crater melt-rock, Humboldt Universitaet Berlin (DFG funding), May 2004.

POSTDOCTORAL RESEARCHERS

- CURRENT (7)

- DR. INIGO ANDREAS MULLER (PhD Bremen University, 2013), Applications of the clumped isotope method to understand past global changes and isotopic signature preservation in the sedimentary record, Funding FWO project (2023-present).
- DR. CEM BERKE SENEL (PhD Université Libre de Bruxelles, 2013), Modeling Impact Processes at Multiscale: From asteroid interiors to planetary habitability and evolution, FWO Junior Postdoctoral fellow (2023-present)
- DR. BORIS KARATSOLIS (PhD University of Uppsala, 2023), Astronomical pacing and abrupt changes in phytoplankton paleoproductivity during the last 10 million years of Earth's history, Funding EUTOPIA Marie Skłodowska-Curie Science & Innovation fellowship (2023-present).
- DR. ANIKET MITRA (PhD Presidency University, Kolkata, India, 2023), Responses of biota to a sudden global warming event in an overall cooling phase of the Earth, Funding EUTOPIA Marie Skłodowska-Curie Science & Innovation fellowship (2023-present, joint with Prof. Béatrice Ledésert, Cergy University, France).
- DR. JEAN-GUILLAUME FEIGNON (PhD University of Vienna, 2023), Formation and Emplacement of Accretionary Lapilli and Pyroclastic Deposits in Impact Structures, Funding EUTOPIA Marie Skłodowska-Curie Science & Innovation fellowship (2023-present)
- DR. KEVIN REY (PhD University Lyon-1, 2016), Stable isotopes in coprolites and vertebrate bones and teeth, funding BELSPO project (2021-present)
- DR. MARION PERAL (PhD University Paris-Saclay, 2018), Development of clumped isotopes methodologies, funding VUB Strategic Research (2020-2023), FWO Senior Postdoctoral fellow (2023-present)

- FORMER (29)

- DR. RHY MAC MILLAN (PhD University of British Columbia, 2019), Indigenous-led investigations of ancient lithium resource use in the Pacific Northwest, Research Council of Canada, (2020-2023), Present Position, *Assistant Professor, Earth Science Dept., Vancouver Island University, BC, Canada*
- DR. LAWRENCE PERCIVAL (PhD University of Oxford, 2017), Reconstructing the environmental influence of large igneous province volcanism using osmium isotopes, Funding Senior Post-doctoral Fellowship Research Foundation Flanders, FWO (2017-2023), Present position, *Assistant Professor, Dept. Of Earth Sciences, Vrije Universiteit Amsterdam.*
- DR. NIELS DE WINTER (PhD, VUB 2019): Improving the accuracy of techniques for high-resolution seasonal scale climate reconstructions from bivalve shells, Junior Post-doctoral Fellowship Research Foundation Flanders, FWO (2017-2023), Present position, *Assistant Professor, Dept. Of Earth Sciences, Vrije Universiteit Amsterdam.*
- PIM KASKES (PhD AMGC-VUB, 2023), Micro-XRF and stable isotopes of Bernissart Iguanodon fossil bones, Funding BELSPO project (2023), Present position, *Post-Doctoral researcher Dept. G-Time Geochemistry-Geophysics, Université Libre de Bruxelles*
- Dr. REBECCA DOYLE, (PhD University of Western Ontario, 2020), New developments in stable isotopes for paleolimnology applications, Funding SRP project, Present position, *Hydrochemist, Lake Simcoe, Ontario, Canada.*
- DR. MARTA MARCHEGIANO (PhD University Lausanne, 2017), Recent paleoclimate reconstructions using clumped isotopes, funding VUB Strategic Research, Present position, *Research at Andalusian Earth Sciences Institute, University of Granada, Spain.*
- DR. JOHAN VELLEKOOP, (PhD University Utrecht, 2015), Recovery at Ground Zero, a unique biological record from inside the Chicxulub impact crater, funding Belgian Science Policy Office, IUAP/PAI Planet Topers, Senior Post-doctoral Fellowship Research Foundation Flanders, FWO, April 2017 – 2021, *present position, Research Professor, Dept. Environmental Sciences, KULeuven & Royal Belgian Institute of Natural Sciences, Brussels, Belgium*
- DR. KOEN STEIN (PhD: University of Bonn, 2011), Long bone histology of basalmost and derived Sauropodomorpha: The convergence of fibrolamellar bone and the evolution of giantism and nanism. August 2014 – 2021: funding Post-doctoral Fellowship Research Foundation Flanders, FWO, *present position, Researcher Royal Belgian Institute of Natural Sciences, Brussels, Belgium*
- DR. ALEXANDRA RODLER (PHD University of Copenhagen 2016), Biogeochemical cycles of metals, and the calibration and application of elemental and isotopic proxies to trace Neoproterozoic environmental changes, funding FWO-FNRS EOS project ET-Home, 2019-2020, *present position, Research scientist, & ERC starting grant holder, Austrian Academy of Science, Vienna, Austria,*
- DR. INES TOMASEK, (PhD University of Durham 2018), The impact of the urban environment on the respiratory toxicity of volcanic ash, funding VUB Strategic Research 2018-2021, *present position, post-doctoral researcher, lab Magma & Volcans, Univ. of Clermont-Ferrand, France*
- DR. MATTHIAS VAN GINNEKEN, (PhD University of Sienna, 2010), Weathering of Antarctic meteorites and geochemistry of micrometeorites, April 2016 – 2019, funding Belgian Science Policy Office, Admundsen project, *Present position, Research scientist, University of Kent*
- DR. CHRISTOPHE SNOECK (PhD: University of Oxford, 2014), Oxygen and Calcium isotopes in bones in teeth, March 2015 – Sept. 2017, funding Belgian Science Policy Office, Cold Case project, Oct. 2017 – Feb. 2021 Fellowship Research Foundation Flanders, FWO, *Present position, Research professor, AMGC-VUB*
- DR. HUAN CUI (PhD University of Maryland, 2015), Biogeochemistry to trace the co-evolution of environments and life, funding FWO-FNRS EOS project ET-Home, 2018-2020, *Present position, Assistant Professor, Dept. Of Geosciences, Mississippi State University, USA*
- Dr. STEVEN GODERIS (PhD: VUB 2011), Detection and identification of traces of impacted projectile in terrestrial and extraterrestrial materials using relevant trace element abundances and isotope ratios, April 2011-October 2019, funding Post-doctoral Fellowship Research Foundation Flanders, FWO & BELSPO, *Present position, research professor, AMGC, VUB*

- DR. SEANN MCKIBBIN (PhD: ANU, Australia, 2012), Petrography/geochemistry of achondrites & Metamorphism and melting in protoplanets during the first 10 million years of Solar System evolution: Connecting metamorphic rocks with mantle residues February 2013 – June 2017, funding Fellowship Research Foundation Flanders, FWO, *Present position, von Humboldt fellow, Potsdam University.*
- DR. CAROLE NEHME (PhD: University of Grenoble 2013), Reconstruction of Eemian climate and environment of the Belgian coast in the context of ongoing global warming, Jan. 2015 – Sept. 2016, *Present position, Maître de conférences, Dept. of Geography, Université de Rouen-Normandy, France.*
- DR. LIDIA PITTARELLO, (PhD: Univ. Padova, Italy 2009), Curation and research of the Belgian Antarctic Meteorite collection, April 2013 – May 2016: funding Belgian Science Policy Office, BELAM project, *Present position Elise Richter Research Professor, University of Vienna, Austria*
- DR. GUIDO PETRUCCI (PhD: Ecole des Ponts, Paris Tech., 2012), Effects of green spaces on urban hydrogeology, March 2014 – March 2017: Funding INNOVIRIS, *Present position Researcher Paris Tech. Paris, France.*
- DR. YOSHIHIRO HIDAKA (PhD: Tokyo Metropolitan Univ. Japan, 2013), chemical composition of phosphates and metals in achondrites, July 2013 – Dec. 2016, funding Japanese fellowship, *Present position Researcher Tokyo Metropolitan University.*
- DR. MATTHEW HUBER (PhD: Univ. Vienna, Austria 2013), Geochemistry and petrography of impactites, and micrometeorites, August 2013 – April 2015, funding VUB-Strategic Research, *Present position Assistant Professor, University of the Free State, Bloemfontein, South-Africa*
- DR. JANOS KODOLANYI, (PhD: Univ. Bern, Switzerland, 2009), Search for pre-solar grains in Antarctic meteorites, May 2013 – June 2014: Funding Planet Topers Inter-University Attraction Pole, Belgian Science Policy Office. *Present position: Researcher Max Planck Institute for Chemistry, Mainz, Germany*
- DR. KAREN VAN HOECKE (PhD Univ. Ghent, 2010), Development of analytical protocols for $\delta^{7}\text{Li}$ and $\delta^{11}\text{B}$ in various samples, January 2012 – November 2014): Funding Research Funds University Ghent, in collaboration with Prof. Frank Vanhaecke from University Ghent. *Present Position Belgian Nuclear Research Center, Mol, Belgium.*
- DR. CÉLINE MARTIN (PhD, CRPG-Nancy, France), Sm-Hf & Lu-Hf systematics in different types of chondrites, December 2010 – December 2012: funding Belgian Science Policy Office, BELAM project. *Present position: Research Scientist, American Museum of Natural History, USA*
- DR. ANNE-MARIE DESAULTY (PhD CEA/CNRS, France), Cosmochemistry of Antarctic meteorites, and development of Pt isotopes, March 2012 – September 2012: funding Belgian Science Policy Office, SAMBA project, *Present position: Geochemist at the "Bureau de Recherches Géologiques et Minières", Orléans, France*
- DR. EMMA VERSTEEGH (PhD, Vrije Universiteit Amsterdam, 2008), Stable isotope signature of modern bivalve shells, method development, 2009 – 2010: funding Belgian Science Policy Office, *Present position: Assistant professor and director of education at Utrecht University*
- DR. ROALD TAGLE (PhD, Humboldt Univ. Berlin, 2004): Asteroid or comet shower in the Late Eocene, 2005-2007: funding Leopoldina Fellowship, Germany, *Present position: Bruker-AXS analytical, Germany*
- DR. WOLFGANG KIESSLING (PhD, University of Erlangen): Development of the Cretaceous-Tertiary Boundary database (KTbase), 1999-2000: funding DFG project. *Present position: Professor University of Erlangen, Germany.*
- DR. SABINE HEUSCHKEL (PhD, Kiel University): Petrology/Geochemistry of the Chicxulub crater impactites from drill hole Yucatan 6, 1997-1999: funding DFG project. *Present position manager Center for Impact Research (ZERIN) at the Ries Crater Museum, Noerdlingen, Germany.*
- DR. ROLF RETTINGER (PhD, Potsdam University): Monazite age determination using the electron microprobe, 1997–1998, *Present position: staff member, DESY "Deutsches Elektronen-Synchrotron", Hamburg, Germany.*

FORMER PHD OR POSTDOC NOW HOLDING A PERMANENT ACADEMIC POSITION (18)

- DR. RHY MAC MILLAN (Post-doc 2020-2023) *Assistant Professor, Earth Science Dept., Vancouver Island University, BC, Canada*
- DR. MATTHIAS SINNESAEEL (PhD 2020). *Assistant Professor, Dept. of Geology, Trinity College Dublin, Dublin, Ireland*
- DR. LAWRENCE PERCIVAL (Post-doc 2017-2023). *Assistant Professor, Dept. of Earth Sciences, Vrije Universiteit Amsterdam, The Netherlands*
- DR. NIELS DE WINTER (PhD, 2019, Post-doc 2020-2023) *Assistant Professor, Dept. of Earth Sciences, Vrije Universiteit Amsterdam, The Netherlands*
- DR. RYOGA MAEDA (PhD, 2023), *Research Scientist, JAMSTEC, Japanese Agency for Marine-Earth Science and Technology, Yokohama, Japan*
- DR. JOHAN VELLEKOOP, (Post-doc 2017-2021), *Research Professor, Dept. Environmental Sciences, KULeuven & Royal Belgian Institute of Natural Sciences, Brussels, Belgium*
- DR. HUAN CUI (Post-doc 2018-2020), *Assistant Professor, Dept. Of Geosciences, Mississippi State University, USA*
- DR. CHRISTOPHE SNOECK (Post-doc 2015-2020), *Research professor, at AMGC-VUB,*
- Dr. MATTHEW HUBER (Post-doc 2013-2015), *Present position Lecturer, Dept. Of Earth Sciences, University of Western Cape, South-Africa*
- DR. DAVID DE VLEESCHOUWER (PhD 2014), *Associate Professor, Institut für Geologie und Paläontologie, Universitaet Muenster, Germany*
- DR. VIRGINIE RENSON (PHD, 2012), *Research Associate, Archaeometry Laboratory, University of Missouri, USA*
- DR. ANNE-MARIE DESAULTY (Post-doc 2011-2012), *Present position: Geochemist "Bureau de Recherches Géologiques et Minières", Orléans, France*
- DR. CÉLINE MARTIN (Post-doc 2010-2012), *Present position: Research Scientist, American Museum of Natural History, USA*
- DR. KAREN VAN HOECKE (PhD 2010), *Present Position Belgian Nuclear Research Center, Mol, Belgium.*
- DR. STEVEN GODERIS (PhD 2011 & Post-doc 2012-2019), *Present position, research professor, AMGC, VUB*
- DR. EMMA VERSTEEGH (Post-doc 2009 – 2010), *Present position: Assistant professor and director of education at Utrecht University, The Netherlands*
- VANESSA HEYVAERT: (PhD 2007), *Present position: Director Geological Survey of Belgium, Royal Belgian Institute of Natural Sciences, Brussels, Belgium*
- DR. WOLFGANG KIESSLING (Post-doc 1999-2000): *Present position: Professor University of Erlangen, Germany.*

MASTER'S DEGREE THESES (44)

- COMPLETED (2001 - PRESENT)

- FEMKE BUYS, Master in Chemistry, Ghent University 2021, *Particulate and dissolved organic carbon in East Antarctic snow.*
- JARNO J.C. HUYGH, Master in Chemistry, VUB, 2021, *A new independent age model for the type-Maastrichtian chalks of the Kresco Quarry near Hallembaye (Upper Cretaceous) using a cyclostratigraphic approach based on high-resolution geochemical datasets.*
- KAIDI WANG, Master in Chemistry, VUB, 2020, *Comparing environmental perturbations that took place in North American Marine areas during two extinction events of the Late Devonian (383-359 million years ago)*
- GUINTEN VAN GAEVER, Master in Geology, Ghent University 2019, *Petrography and Geochemistry of the Chicxulub impact melt.*

- SEPPE LAMPE, Master in Geology, Ghent University 2019, Iron and oxygen isotopic characterization of glass cosmic spherules from the Sør Rondane Mountains, East Antarctica, co-advisor with Steven Goderis as advisor.
- REMY VAN DE MERCKT, Master in Geology, Ghent University 2019, Ghent University, Computed microtomography of unmelted micrometeorites from the Sør Rondane Mountains, East Antarctica, co-advisor with Steven Goderis as advisor.
- FLORE VAN MALDEGHEM, Master in Geology, Ghent University 2018, Petrography and geochemistry of the XRF and XRF Nano-analysis of unmelted micrometeorites from the Sør Rondane Mountains Antarctica, co-advisor with Steven Goderis as advisor.
- SANDER OP DE BEECK, Master in Geology, KULeuven 2018, Petrography and geochemistry of the suevite from the Chicxulub crater in Yucatan: comparison between the IODP Hole M0077A, ICDP Hole Yaxcopoil-1 and the remaining fragments from the old PEMEX cores (Yucatan-6 and Chicxulub-1).
- RUBEN VANDIJCK, Master in Geology, KULeuven 2018, Petrography and geochemistry of the impactite units occurring within the granite sequence in IODP-ICDP hole M0077A drilled in the Chicxulub crater.
- GLEN PEETERS, Master in Geology, KULEUVEN 2018, Petrography and geochemical analyses of micrometeorites, co-advisor with Steven Goderis as advisor.
- JEROEN VAN WOENSEL, Master in Geology, KULeuven 2018, Histology, preservation and geochemistry of fossil dinosaur bone and teeth, (not defended for medical reasons)
- EMILIE DELHAYE, Master in Geography, VUB, 2018, Relation between land cover and physics-chemical water quality in the Senne basin: An exploratory study using multi-variate statistics, co-advisor Dr. Natacha Brion.
- MINA ZAKI, Master in Biology, VUB, 2018, Micro-CT scanning, digital rendering and phylogenetic analysis of a Lower Permian temnospondyl, co-advisor Dr. Koen Stein.
- JEF DECUYPERE, Master in Geology, KULeuven 2017, Recent paleoclimate reconstructions using stable isotope signals in speleothems (cave deposits)
- ELIAS GOOSSENS, Master in Biology, VUB 2017, The palaeoecology, life history and taphonomic model of mummified Trimerorhachis (Temnospondyli: Trimerorhachidae) from Early Permian of Texas, co-advisor Dr. Koen Stein.
- BENJAMIN JENTGEN, MASTER IN GEOLOGY, Université de Liège, 2016, Histologie d'oeuf de dinosaurs Crétacés (in French), co-advisor with Valentin Fisher as advisor at Université de Liège.
- JOLIEN VAN OPDENBOSCH, Master in Geography, VUB 2015, A high-resolution stable isotope record from the Proserpine stalagmite (Han-sur-Lesse cave, Belgium) to document seasonality during the European Little Ice Age (period between 1620 and 1630 CE)
- JONATHAN PAZ, Master in Biology, VUB 2015, Description, comparison and biomechanics of the feet of *Deinocheirus mirificus*, a giant ornithomimosaur dinosaur from the Late Cretaceous of Mongolia, co-advisor: Prof. Pascal Godefroit, Royal Belgian Institute for Natural Sciences
- BRAM VERMEULEN, Master in Chemistry, VUB 2015, Characterization of a monocalipillary based X-ray microfocus source for tomographic applications, co-advisor, with Prof. L. Vincze, Ghent University as advisor.
- LARS CHRISTIAENS, Master of Biology, VUB 2014, Palaeoecology of Three Marine Reptiles from the Mid-Cretaceous, co-advisor: Dr. Valentin Fisher, Royal Belgian Institute for Natural Sciences.
- MATTHIAS SINNESAELE, Master in Geography, VUB, 2014, The astronomical influence on climate change across the K-Pg boundary. A cyclostratigraphic study of the late Maastrichtian - early Paleocene at the Umbria - Marche Basin (Apennine mountains, Central Italy).
- AROEN DE RIDDER, Master of Geology, KULeuven 2014, Search for pre-solar grains in Antarctic meteorites
- STEVEN TESSEUR, Master in Geology, KULeuven, 2013, Isotopic study of the early Eocene paleoecology and paleoenvironment in Aktulagay, Co-advisor, with Robert Speijer (KULeuven) as advisor
- TOM CROYMANS-PLAGHKI, Master in Chemistry, Ghent University 2013, Method development for Li isotopic analysis via MC-ICP-MS: Application to the Cretaceous-Paleogene boundary clay from the Umbria-Marche sequence, Co-advisor, with Frank Vanhaecke (Ghent Univ.) as advisor

- KAAT ROOSE, Master in Geology, KULeuven 2013, Petrographic and geochemical characterization of distal K/Pg impact ejecta from the Umbria-Marche sequence (Italy)
- ELS VOET: Master in Geology, KULeuven, 2012, Lu-Hf systematics in chondrites
- NADIA VAN ROOSBROEK: Master in Geology, KULeuven, 2012, Mont Dieu II: A IIE non magmatic iron meteorite with chondrules, *Currently PhD student Université Libre de Bruxelles*
- ELI WEERTS: Master in Geography, VUB, 2012, Paleoclimate and paleoenvironmental reconstructions using the stable isotopic records of speleothems.
- SOFIE DE VOLDER: Master in Biology, VUB, 2011, Trace element and stable isotope analyses on dinosaur teeth from the latest Cretaceous. Development of a methodology for paleoenvironmental reconstructions
- HELENA DEMUYNCK: Master in Biology, VUB, 2011, High troodont (Theropoda: Troodontidae) diversity in the Tiaojishan Formation, Liaoning Province, China, and the evolution of avian characters
- JAN VAN ROEYEN: Master in Geology, Ghent University, 2011, Possible impact events in the Ordovician of the Brabant Massif (Belgium)
- LENNY VERHAS: Master in Geology, Ghent University, 2011, Distribution of siderophile elements in the Proterozoic impact ejecta layers of Western Australia
- HARRY ZEKOLLARI: Master in Geography, VUB, 2011, 3 D flow modeling of the Morteratsch glacier Co-advisor with Philippe Huybrechts VUB as advisor), *Currently PhD student Vrije Universiteit Brussel*
- BART VLEMINCKX: Master in Geology, Ghent University, 2011, Geochemistry of the Brent Crater, Canada
- JOKE BELZA: Master in Geology, Ghent University, 2010, Stratigraphy and geochemistry of the Mega-Blocks zone in the Chicxulub crater, Yucatan, *Currently PhD student Vrije Universiteit Brussel*
- WOUTER SLUYTS: Master in Geology, KULeuven, 2010, Testing the use of Tungsten isotopes as impact markers.
- JUSTINE SAUVAGE: Master in Geography, VUB, 2010, Distribution of platinum group elements across the Cretaceous-Tertiary Boundary, Denver basin Colorado, *Currently PhD student University of Rhode Island*
- DAVID DE VLEESCHOUWER: Master in Geography, VUB, 2010, Time-series analysis on selected geological sections: A search for cyclicity, *Currently PhD student Vrije Universiteit Brussel*
- ERNEST NDUMBE EKONGOLO: Master Human Ecology VUB, 2008: An environmental evaluation of the impact of Mount Cameroon volcanic eruption in Buea, Cameroun
- SANDYA MALKANTHI MAHA MADAKALAPUWAGE: Master in Ecomama, VUB, 2008, Sediment characteristics and stratigraphy of selected mangrove sites along the coast of Sri Lanka: Searching for evidence of tsunami depositions, (co-advisor with Farid Dahdouh-Guebas as advisor)
- RUTGER DUJARDIN: Master in Geography VUB, 2007: Remote sensing study of the Luizi structure, a possible impact crater in Katanga, Congo (with Jonathan Cheung-Wai Chan as co-advisor)
- NIELS VAN DEN BORRE: Master in Geology, Univ. Ghent, 2007: Petrology and geochemistry of the Mont Dieu iron Meteorites
- LIESBET DUBRON: Master in Geology, Univ. Ghent, 2007: Interpretation of the Lapilli ejecta at the KT boundary.
- SARAH DENYS: De contrasterende Holocene sediment successie langsheen het westelijk en oostelijk deel van de Belgische kust, Licentiaat in de Geografie, 2007, VUB, (with Cecile Baeteman as co-advisor, in Dutch)
- STEVEN GODERIS: Master in Geology, Univ. Ghent, 2006: Platinum group element distribution in impact craters: examples from Bosumtwi and Gardnos.
- JOSEPHINE WAMBUI NJANBUYA: Master in Ecological Marine Management, VUB, 2006: Sediment Characteristics, its origin and stratigraphy of Mangrove soils of Gazi bay, Kenya (with Farid Dahdouh-Guebas as co-advisor)
- DE HAUWERE: Nathalie, Master in Geography, VUB, 2005: Ontstaan en evolutie van de Laat-Holocene getijdengeul Testerep, in het gebied tussen Nieuwpoort en Oostende (Belgische kustvlakte), (with Cecile Baeteman, as co-advisor, in Dutch)

- SHEKU SEI: Master in Ecological Marine Management, VUB, 2005: Aging and Growth Estimation of Plaice *Pleuronectes Platessal* from the Celtic Sea and the North Sea: Stable $\delta^{18}\text{O}$ and $\delta^{13}\text{C}$ Isotopes in Otoliths as a Validation Tool for Classical Methods.
- SERGE ROTENBERG: Master in Ecological marine management, VUB, 2004: Modeling the North Atlantic Gyre.
- JOSEPH SHYRIAMBERE: Master in Environmental Science and Technology, VUB, 2004: Metal adsorption on the Boom clays.
- KRISTOF VLAEMINCK: Master in Geology, Univ. Ghent, 2004: Paleoenvironmental evolution in the Maastrichtian and across the KT boundary at Gubbio, (Italy)
- YUAN, YI: Master in Ecological marine management, VUB, 2004: Hydrology and Oxygen Isotope Signature of Tropical Fresh Water on Mt. Kilimanjaro, Equatorial East Africa
- TA TRUONG THINH: Master in Environmental Science and Technology, VUB, 2003: Metal adsorption on clays: The case of Zn, Cu, Pb and Cd on Boom clays in Rumst
- ROB RENARTS: Master in Environmental Science and Technology, VUB, 2003: Metal adsorption on clays: The case of Sr, Cs, Ni and Cd on Boom clays in Rumst, Belgium.
- SILKE WESELER, Master Degree, Fakultät der Geowissenschaften, Universität Potsdam 2002: Mapping distal portions of proximal ejecta blanket of the Chicxulub impact crater, southeastern Yucatan peninsula.

BACHELOR THESES (2008 – PRESENT)

- JARNO HUYGH, 3rd Bachelor Chemistry, VUB 2019, Geochemical study on Maastrichtian chalk, new insights into cyclostratigraphy by using stable isotopes and elemental analyses
- MAARTEN OTTAWAY, 3rd Bachelor Biology, VUB 2018, Impact-induced hydrothermal systems show possibility for origin of life
- ERWIN COEN, 3rd Bachelor Chemistry, VUB 2017, Cross-calibration of μXRF and SEM-EDS data for Ni content in Antarctic micrometeorites
- CEDRIC VAN SANTEN, 3rd Bachelor Chemistry, VUB 2016, Quantifying preservation of dinosaur bones in the Howe-Stephens Quarry (Wyoming, USA) with high precision μXRF
- ANDRUSHA NDIREMBAKO, 3rd Bachelor Chemistry, VUB 2016, Stable isotopes and trace elements in a Belgian stalagmite: a tool for reconstructing seasonal climate signals of the early 18th century.
- MATTHIAS SINNESAELE: 3rd Bachelor Geography VUB, 2012, Stable isotopes ($\delta^{13}\text{C}$, $\delta^{18}\text{O}$) at the Mid-Devonian 'La Couvinoise' section: an astronomical interpretation and comparison with magnetic susceptibility
- MAARTEN VERCRUYSE: 3rd Bachelor Archeology VUB, 2011, Pb isotopes in keramiek (co-advisor with Karin Nys VUB-MARI as advisor, in Dutch)
- VIKKI SCHOLDIS: 3rd Bachelor Geografie VUB, 2010, Distributie en karakterisatie van morene afzetting in de regio van basis Princess Elisabeth, Antarctica (in Dutch)
- ELS CLAES: 3rd Bachelor Geografie VUB, 2010, Pb concentratie in speleothems (in Dutch)
- BRAM JACOBS: 3rd Bachelor Geografie VUB, 2009, Holocene kustafzettingen in de Belgische kustvlakte, (Co advisor: Cecile Baeteman, KBIN, in Dutch)
- NADIA VAN ROOSBROEK: 3rd Bachelor Geografie VUB, 2009, Niet magmatische ijzermeteorieten (in Dutch)
- JOHAN VANDAELE: 3rd Bachelor Geografie VUB, 2009, Large igneous provinces: Definition, link with mass extinctions and magma-sediment interactions
- ELI WEERTS: 3rd Bachelor Geografie VUB, 2009, Holoceen Paleoklimaten in Oost Middellandse Zee (in Dutch)
- DAVID DE VLEESCHOUWER: 3rd Bachelor Geografie VUB, 2008, Reconstructie van het paleomilieu en opsporen van Milankovitch cycli gedurende het Laat Maastrichtiaan (in Dutch)
- STEVEN TASSIGNON: 3rd Bachelor Geografie VUB, 2008, Gebruik van sclerosponen voor paleoklimaatreconstructie (in Dutch).

FUNDING OF RESEARCH PROJECTS

Full project-list in VUB Pure database: <https://cris.cumulus.vub.ac.be/portal/>), PhD & post-doc mandates & fellowships *not* included below. Total budget > 6 million euros all included.

- CURRENT

- LARGE RESEARCH GROUP (LGR): ARCHAEOLOGY, ENVIRONMENTAL CHANGES AND GEO-CHEMISTRY, Internal funding VUB, 2024 – 2027, (Pi): 1.29 million € (personnel, instrument purchase & consumables)
- FLANDERS-CHINA COLLABORATION: HIGH-RESOLUTION ASTROCHRONOLOGY AND GLOBAL STRATIGRAPHIC CORRELATION OF THE EDIACARAN PERIOD, 2024-2026 (Pi), Funded by: Research Foundation Flanders (FWO) travel, lodging, living costs covered for 3 researchers to NIGPAS (Nanjing Institute of Geology and paleontology, Chinese Academy of Science) in Nanjing.
- EARTH FROM ACCRETION TO ANTHROPOCENE: DOCUMENTING 4.5 BILLION YEARS OF GLOBAL CHANGES, Internal funding VUB in framework of Strategic Research Programs, 2022 – 2027, (Pi): 1.32 million € (personnel, instrument purchase & consumables)
- SHOOTING STARS AND BLASTING DINOSAURS: BOOSTING ICP-MS CAPABILITIES ACROSS VARIOUS RESEARCH DOMAINS (Co-Pi) Funded by: Research Foundation Flanders (FWO Hercules Medium-size Instruments), 2022 – 2027: 584,000 € (Instrument purchase ICP-MS & laser ablation)
- BELGIAN-INDIA RESEARCH GROUP ON METEORITES AND IMPACT CRATERS, (Pi), funded by BELSPO Belgian Science Policy Office, 2022-2025, 28,000 € (travel/lodging, fieldwork)
- SOME LIKE IT HOT: EXPLORING EARTH'S THERMAL MAXIMUM BY RECONSTRUCTING THE SPATIAL DISTRIBUTION OF ATMOSPHERIC TEMPERATURE AND MOISTURE CONTENT THROUGHOUT THE PHANEROZOIC, (Pi), funded by Research Foundation Flanders (FWO, Senior Research Project) 2022-2025, 511,300 € (G038022N, personnel and consumables)
- HIGH-RESOLUTION ASTROCHRONOLOGY AND GLOBAL STRATIGRAPHIC CORRELATION OF THE EDIACARA PERIOD (Pi), Funded by Open Research Grant of the State Key Laboratory of Palaeobiology and Stratigraphy, Nanjing, Chinese Academy of Sciences, 2023 – 2026: 15000 € (travel and field work in China)
- CYCLONET: EUROPEAN CYCLOSTRATIGRAPHY NETWORK, (Pi), funded by Research Foundation Flanders (FWO, EU Scientific Network) 2022-2025, 62,500 € (travel, logistic, fieldwork, meeting organization)
- PARADI²S PARASITIC DIVERSITY VECTORS, HOST AND TRANSFERS IN EARLY CRETACEOUS DINOSAURS-ASSOCIATED VERTEBRATES, (co-Pi), funded by BELSPO Belgian Science Policy Office, 2021-2024, 246,000 € (total 738,324 €, personnel and consumables)
- IGUANODON 2.0 - SHEPHERDING THE "BELLE EPOQUE" BERNISSART IGUANODON COLLECTION INTO THE 21ST CENTURY, (co-Pi), funded by BELSPO Belgian Science Policy Office, 2021-2024, 135,000 € (total 794,488€, personnel and consumables)
- TOWARDS A VERSATILE PHOTOELECTRON SPECTROSCOPE FOR IN SITU INTERFACIAL MOLECULAR STUDIES IN MATERIAL SCIENCE, (Co-Pi) Funded by: Research Foundation Flanders (FWO Hercules Medium-size Instruments), 2020 – 2025: 869,087 € (Instrument purchase XPS infras-structure)
- THE MAKE-UP OF THE CITY: A TRANSDISCIPLINARY STUDY OF URBAN SOCIETY IN THE PRE-MODERN LOW COUNTRIES, (co-Pi), Funded by Interdisciplinary Research Programmes/Centres of Expertise (IRP) VUB, 2019-2024: 500,000 €, (2 x PhD students and consumables)
- INTERNATIONAL JOINT RESEARCH GROUP: BRUSSELS-OXFORD NETWORK FOR THE STUDY OF BIOAPATITE AS A POORLY EXPLOITED ARCHIVE OF ANCIENT DIET, ECOLOGY AND MIGRATION OF HUMAN AND FAUNAL FOSSILS, (Pi), Funded by VUB Research Council, with Prof. Rick Schulting at University Oxford, 90,000€ (Since 2017, renewed 2023-2026).

- Expired

- A WALK ON THE WILD SIDE OF STABLE ISOTOPE BIOGEOCHEMISTRY, (Pi) Funded by: Research Foundation Flanders (FWO Hercules Medium-size Instruments), 2018 – 2023: 685,000 € (acquisition of 2 new mass spectrometers + peripherals)

- CONSTRUCTING THE CHEMOSTRATIGRAPHY OF CANDIDATE GSSP FOR THE TERMINAL EDIACARAN STAGE (co-Pi), Funded by Open Research Grant of the State Key Laboratory of Palaeobiology and Stratigraphy, Nanjing, Chinese Academy of Sciences, 2019 – 2022: 13000 € (travel and field work in China)
- EVOLUTION AND TRACERS OF HABITABILITY OF MARS AND THE EARTH, EOS the excellence of Science FNRS/FWO, 2018 – 2022, (co-Pi): 781,000€ (personnel, instrument, consumables)
- TRACING AND MODELING OF PAST AND PRESENT GLOBAL CHANGES, Internal funding VUB in framework of Strategic Research Programs, 2018 – 2022, (Pi): 1.3 million € (personnel, instrument purchase & consumables)
- GLOBAL MINDS VUB XREI 2019 - CALL FOR INCOMING AND OUTGOING STAFF MOBILITY, (Pi), Funded by VLIR-UOS, Travel costs, per diem and lodging for Professor Beatriz Romeu-Alvarez, (Laboratory of Microbial Ecology, University of Havana) to visit AMGC-VUB in June 2019.
- SUBLIMUS – BECOMING MODERN GREEN URBAN ARCHEMISTS: GOLD AND SILVER MINING FROM BRUSSELS URBAN SEWAGE, (co-Pi) Funded by INNOVIRIS (*Institute for the encouragement of Scientific Research and Innovation of Brussels*), 2019-2021: 388,500 € (personnel and consumables)
- HONEY BEEDS AS BIOINDICATORS OF ENVIRONMENTAL POLLUTION, (CO-Pi), Funded by Peter Wall Institute for Advanced Studies, Wall Solutions project, University of British Columbia, BC, Canada, 2018-2020, 50,000\$Can.
- ETUDE DE LA QUALITE DE L'ENREGISTREMENT PALEOCLIMATIQUE DES STALAGMITES, Bilateral Collaboration Quebec-Flandre, (Flemish Pi), 2018-2020, Funding for travel and scientific exchanges with Quebec.
- CYCLOSTRATIGRAPHY INTERCOMPARISON PROJECT (Pi) Funded by Research Foundation Flanders (FWO congress organization), Royal Flemish Academy of Belgium, International Association of Sedimentologists, EarthRates-US National Science Foundation & VUB Hoover Funds, 2018: total 13,800 € (organization of international workshop in Brussels)
- PETER WALL INSTITUTE FOR ADVANCED STUDIES, UNIVERSITY OF BRITISH COLUMBIA, (Pi), International Visiting Research Scholar, 2016-2017, 10,000 \$Can.
- SCIENTIFIC REJUVENATION IN CRATERING AND DINOSAUR EXTINCTION, (Pi), 1-year Sabbatical leave, funded by VUB Research Office, 2017, 75,000€.
- CHICXULUB 2016 IODP-ICDP DEEP DRILLING FROM CRATERING TO MASS EXTINCTION, (Pi), funded by BELSPO Belgian Science Policy Office, 2017 – 2021, 292,575€ (personnel and consumables)
- DIABASE-DISCLOSING THE ANTARCTIC BASEMENT BY SAMPLING ICE FIELD MORAINES, (Co-Pi), funded by BELSPO Belgian Science Policy Office, 2017 – 2019, 32,288€ (consumables)
- UNRAVELLING PARTICLE CHEMISTRY IN DRONNING MAUD LAND: FROM ATMOSPHERE TO SURFACE SNOW, (Co-Pi) funded by BELSPO Belgian Science Policy Office, 2017 – 2019, 30,900€ (consumables)
- CHICXULUB IODP-ICDP DEEP DRILLING: FROM CRATERING TO MASS EXTINCTION, (Pi), funded by: *FWO-Research Foundation Flanders* 2017-2020, 266,500€ (G0A6517N, personnel and consumables)
- DEVELOPMENT OF 3D ELEMENTAL, STRUCTURAL AND ISOTOPIC MICROANALYSIS TECHNIQUES FOR THE STUDY OF UNIQUE METEORITIC MATERIALS, (Co-Pi), Funded by University Ghent, Special Research Funds – Concerted Research Action 2017 – 2021, 1,471,500€ (personnel & consumables)
- PLATFORM FOR INTERDISCIPLINARY ISOTOPIC RESEARCH BY MEANS OF MULTI-COLLECTOR INDUCTIVELY COUPLED PLASMA - MASS SPECTROMETRY (MC-ICP-MS) (Co-Pi) Funded by: Research Foundation Flanders (FWO Hercules Large Instruments jointly to Ghent University (Pi Frank Vanhaecke), VUB, and KULeuven, 2016-2021: 854,975 € (instrument purchase)
- INFRA-RED ANALYSES FROM MACRO TO NANO SCALES: FROM NOVEL SELF-HEALING MATERIALS TO JURASSIC DINOSAUR BONE CELLS (Co-Pi), funded by: *Research Foundation Flanders (FWO Hercules Medium-size Instruments) to VUB*, 2016-2021: 836,706 € (instruments purchase)
- AMUNDSEN - ANTARCTIC METEORITES CURATION, DIGITALIZATION AND CONSERVATION, (Co-Pi), funded by *BELSPO Belgian Science Policy*, 2015-2019: 67,575€, (personnel & consumables)
- COLD-CASE-RE-OPENING OF THE BERNISSART IGUANODON CRIME SCENE, (Co-Pi), funded by *BELSPO Belgian Science Policy*, 2015-2018: 262,568€, (personnel & consumables)

- CARTE ISOTOPIQUE DE L'EAU URBAINE, MONTREAL-BRUXELLES, Bilateral Collaboration Quebec-Flandre, (Flemish Pi), 2016-2018, Funding for travel and scientific exchanges.
- OSIRIS II - TRACING METROPOLITAN BRUSSELS WATER ROUTES, (Pi), Funded by: *Institute for the encouragement of Scientific Research and Innovation of Brussels (Innoviris)*, 2016-2018: 210,532 € (personnel & consumables)
- THE ORIGIN OF GLASSES: MELTS, METALS AND MOTIVE, (Co-Pi), funded by: *FWO-Research Foundation Flanders* 2015-2018: 94,200€ (FWO-G0C4315N, consumables)
- X-RAY ANALYTICAL INSTRUMENTATION: FROM THE FIELD TO THE MICRO-SCALE (Co-Pi), funded by: *Hercules Foundation Flanders*, 2013-2018: 573,000€ (instruments purchase)
- TRACERS OF PAST AND PRESENT GLOBAL CHANGES, Internal funding VUB in framework of Strategic Research Programs, 2013 – 2017, (Pi): 1.2 million € (personnel, instrument purchase & consumables)
- "PLANETTOPERS", PLANETS: TRACING THE TRANSFER, ORIGIN, PRESERVATION, AND EVOLUTION OF THEIR RESERVOIRS, Interuniversity Attraction Poles (IAP), phase VII, funded by *BELSPO Belgian Science Policy*, 2012-2017, (Co-Pi-VUB): 500,000€ (personnel, instrument purchase & consumables), (<http://iuap-planet-topers.oma.be>)
- LIVINWATER: LIVING WATER IN LIVING CITIES: (Pi) Funded by: *Institute for the encouragement of Scientific Research and Innovation of Brussels (Innoviris)*, 2016-2017, 9909 € (preparation H2020 proposal)
- $\delta^{7}\text{Li}$ AND $\delta^{11}\text{B}$: ADDITIONS TO OUR EXISTING BIOGEOCHEMICAL ARSENAL OF TRACERS IN EARTH & PLANETARY SCIENCES, (Pi), funded by: *FWO-Research Foundation Flanders* 2013-2016: 91,400€ (FWOAL659-G009113N, consumables)
- TOURNESOL - COLLABORATION WITH FRANCE, (Pi) funded by: *FWO-Research Foundation Flanders* 2016-2017 (FWO-VS02716N, travel costs for scientific exchanges)
- FROM THE FOREST TO THE CITY: SERVICES PROVIDED BY BRUSSELS GREEN SPACES TO URBAN HYDROGEOLOGY, (Pi), Funded by: *Institute for the encouragement of Scientific Research and Innovation of Brussels (Innoviris)*, 2014-2016: 104,034 € (personnel & consumables)
- OSIRIS - TRACING METROPOLITAN BRUSSELS WATER ROUTES, (Pi), Funded by: *Institute for the encouragement of Scientific Research and Innovation of Brussels (Innoviris)*, 2014-2016: 209,975 € (personnel & consumables)
- BELGIAN-RUSSIAN COOPERATION ON SPACE EXPLORATION (BRSPACE), (Co-Pi), funded by *BELSPO Belgian Science Policy*, 2013-2016, (funding for extended visit of scientists)
- ASSESSING ENVIRONMENTAL AND BIOTIC CHANGE BEFORE AND AFTER ASTEROID IMPACT AT THE CRETACEOUS/TERTIARY BOUNDARY, (CO-PI): *FWO-Research Foundation Flanders* 2013-2016: 80,000€ (FWOAL681- G0B8513N, consumables)
- MISSION SAMBA (VUB)- STATION PRINCESS ELISABETH (ANTARCTICA) "BELARE 2012-2016":, funded by *BELSPO Belgian Science Policy*, 2012-2013: 98,600€, (logistics)
- BELGIAN ANTARCTIC METEORITES: CURATION AND RESEARCH "BELAM", (co-Pi), funded by *BELSPO Belgian Science Policy*, 2012-2016: 480,000€, (personnel & consumables)
- HIGH RESOLUTION SECTOR FIELD INDUCTIVELY COUPLED PLASMA MASS SPECTROMETER (HR-SF-ICPMS), (co-Pi) funded by: *Hercules Foundation Flanders*, 2012-2015: 450,000€ (instrument purchase)
- "SAMBA II" SEARCH AND STUDY OF ANTARCTICA METEORITES: BELGIAN CONTRIBUTION, (Pi), funded by: *BELSPO Belgian Science Policy*, 2010-2015: 498,000€, (personnel & consumables)
- THE CRETACEOUS GREENHOUSE WORLD AND ITS IMPACT ON TERRESTRIAL ECOSYSTEMS IN ASIA, funded by *BELSPO Belgian Science Policy in framework of Belgian-China Collaboration*, (co-Pi) 2012-2014: 75,000€, (consumables & logistics)
- NARNIA, NEW ARCHEOLOGICAL RESEARCH NETWORK FOR INTEGRATING APPROACHES TO ANCIENT MATERIAL STUDIES, *EU Marie Curie training Network*, (<http://narnia-itn.eu/>), 1 Ph. D student, travel and consumables, 2011-2014.
- BRUSSELS: THE FORGOTTEN WATER FLUXES (GROUND, SEWER, RIVER, PRECIPITATION, POTABLE ETC.): Isotopic, cartographic and historic approach for a sustainable development at the city scale (Pi), Funded by:

Institute for the encouragement of Scientific Research and Innovation of Brussels (Innoviris), 2011-2014: 210,500€ (personnel & consumables)

- APPLICATION OF SM-ND AND LU-HF ISOTOPE SYSTEMS IN GEOLOGICAL AND ARCHEOMETRIC RESEARCH (Co-Pi), funded by: *FWO-Research Foundation Flanders 2011-2014: 52,000€ (FWOAL601-G00211N, consumables)*
- DEVELOPMENT OF SAMPLE INTRODUCTION METHODS AND ANALYTICAL PROTOCOLS FOR HIGH-PRECISION AND ACCURATE ISOTOPIIC ANALYSES VIA MULTI-COLLECTOR ICP-MASS SPECTROMETRY FOR INNOVATIVE AND INTERDISCIPLINARY APPLICATIONS, (Co-Pi), *Foundation ed by: FWO-Research Foundation Flanders 2011-2014: 48,000€ (FWOAL604-GA07811N, consumables)* VAN DIERENDONCK RESEARCH FELLOWSHIP, (Pi), funding for a 4 years PhD student on the topic of Global Changes and bio-geo-chemical cycles 2011-2014: 200,000€
- STABLE ISOTOPE RATIO MASS SPECTROMETER FOR INTERDISCIPLINARY APPLICATIONS IN THE EARTH AND LIFE SCIENCES, (Pi), funded by: *Hercules Foundation Flanders, 2010 -2015: 400,000€ (instrument purchase)*
- "SAMBA I" SEARCH FOR ANTARCTICA METEORITES: BELGIUM ACTIVITIES, (Pi), funded by: *BELSPO Belgian Science Policy, 2009-2010: 50,000€ (Field work campaign Antarctica, 2010)*
- "MICROMETA": ANTARCTIC MICROMETEORITES AS CLUES TO THE EARLY SOLAR SYSTEM AND PLANETARY EVOLUTION, (Pi), funded by: *InBev-Baillet Latour Antarctic Prize 2009, 150,000€, 2010-2013, (Personnel & consumables).*
- ECOLOGY AND HYDROGEOLOGY OF THE MOLENBEEK VALLEY IN THE BRUSSELS CAPITAL REGION, (Pi), funded by: *Brussels Environment IBGE/BIM 2010-2013: 120,000€ (BRGEOZ158 Personnel & consumables)*
- STABLE ISOTOPE METHODS FOR THE STUDY OF BIOGEOCHEMICAL PROCESSES IN AQUATIC ENVIRONMENTS AND THE PALEOCLIMATE, (Co-Pi), funded by: *FWO-Research Foundation Flanders 2010-2013: 225,000€ (FWOAL542, Personnel & consumables)*
- EVOLUTION OF THE DEEP-SEA ECOSYSTEM DURING EARLY EOCENE TRANSIENT WARMING EVENTS: STABLE-ISOTOPE AND FORAMINIFERAL EVIDENCE, (Co-Pi), FUNDED BY: *FWO-RESEARCH FOUNDATION FLANDERS 2010-2013: 36,000€ (FWOAL544, CONSUMABLES)*
- PLANETARY IMPACT EJECTA AND THE PHYSICO-CHEMICAL EVOLUTION OF PLUMES, (Co-Pi), \$260,401 funded by: *NASA Planetary Geology & Geophysics program 2008-2011, managed by Planetary Institute, Tucson AR, USA, (Personnel & consumables)*
- DOCUMENTING ASH FALLOUT FROM THE EYJAFJALLAJÖKULL IN BELGIUM, (Pi), funded by: *Belgocontrol, 2010, 5000€*
- EFFECTS OF LITHOLOGIES ON IMPACT CRATERING, (Co-Pi), funded by: *NASA Research Opportunity in Space and Earth Sciences, 2006-2009, \$167,098 (Personnel & consumables).*
- HYDROGEOLOGY OF RAINWATERS IN THE BRUSSELS CAPITAL REGION, (Pi), funded by: *Brussels Environment IBGE/BIM, 2007-2009: 104,000€ (BRGEOZ129, Personnel & consumables)*
- DEVELOPMENT OF STABLE ISOTOPE TECHNIQUES FOR THE STUDY OF BIOGEOCHEMICAL CYCLES IN AQUATIC ECOSYSTEMS AND (PALAEO)-ENVIRONMENTS, (Co-Pi), funded by: *FWO-Research Foundation Flanders 2006-2009, (FWOAL370 254,400€ purchase of new mass spectrometer, consumable & personnel)*
- METHOD DEVELOPMENT FOR INTERDISCIPLINARY ISOTOPIIC RESEARCH VIA MULTI-COLLECTOR ICP - MASS SPECTROMETRY, (Co-Pi), funded by: *FWO-Research Foundation Flanders 2006-2009, 20,000€ (FWOAL378 consumables).*
- HIGH RESOLUTION Rb-Sr AND Pb ISOTOPE GEOCHEMISTRY: APPLICATIONS IN GEOLOGICAL AND ARCHEOMETRIC RESEARCH, (Co-Pi), funded by: *FWO-Research Foundation Flanders 2006-2009, 55,300€ (FWOAL365 consumables)*
- SUSTAINABILITY IN LATE BRONZE AGE: VUB Horizontal Research Action Project 2007-2010 (Co-Pi), 2 PhD students + consumables.
- MULTI-COLLECTOR INDUCTIVELY COUPLED PLASMA MASS SPECTROMETER (MC-ICPMS) FOR INTERDISCIPLINARY RESEARCH, (Co-Pi), funded by: *Flemisch Government (AWI)-Impulse funding for heavy analytical instruments in Flanders 2005-2008, Budget 1.9 million Euros between 3 universities Ghent, KULeuven and VUB*
- CRITICAL EVALUATION OF MARINE CALCAREOUS SKELETONS AS RECORDERS OF GLOBAL CLIMATE CHANGE (CALMARS II) (Co-Pi), funded by: *BELSPO Belgian Science Policy, 2005-2009 (362,040€ consumables & personnel: 2 researchers).*

- GEOCHEMISTRY AND PETROLOGY OF THE ICDP YAXCOPOIL CORE IN THE CHICXULUB CRATER, (Pi), funded by: *FWO-Research Foundation Flanders* (2004–2006), 29,000€
- GEOCHEMISTRY AND PETROGRAPHY OF IMPACTITES AND EJECTA MATERIAL FROM THE CHICXULUB CRATER (YUCATAN - MEXICO) AND RELATIONSHIP TO THE CRETACEOUS - TERTIARY BOUNDARY EVENT (renewal) Principal investigator Financing DFG, Germany, 2000-2004, Salaries: 1 PhD student, 1 post-doctoral researcher for 4 years, equivalent of € 25,000/year for travel, consumable and equipment.
- THE CHICXULUB CRATER (YUCATAN - MEXICO) AND RELATIONSHIP TO THE CRETACEOUS - TERTIARY BOUNDARY EVENT, Principal investigator, Financing DFG-ICDP Schwerpunktprogramme, Germany, 1996-2000, Salaries: 1 PhD student, 1 post-doctoral researcher for 4 years, equivalent of ~ € 25,000/year for travel, consumable and equipment.

TEACHING DUTIES (LAST 10 YEARS)

- GEOLOGY, 1st year bachelor geography, chemistry, bio-engineering and biology (6 ECTS – *in Dutch*, average 150 students), 2002 – present
- STRATIGRAPHY & SEDIMENTOLOGY, option course for 2nd & 3rd year bachelor geography, (5 ECTS, average 20 students, *in Dutch*,) 2014 – present.
- ORIGIN OF LIFE AND PALEONTOLOGICAL EVOLUTION, Master in biology at the VUB (3 ECTS, average 20 students, *in English*) 2007 – present.
- APPLICATIONS IN ANALYTICAL & ENVIRONMENTAL SCIENCES, Master in Chemistry at the VUB (6 ECTS, average 20 students, *in English*) 2020 – present
- SOLAR SYSTEM, EARLY EARTH AND IMPACT EVENTS, option course in the Master Geology at Ghent University and Master in Astronomy & Master in Geology at the KULeuven (6 ECTS, average 15 students, *in English*), 2007 – present.
- GENERAL CHEMISTRY, 1st year bachelor geography and biology, (6 ECTS, average 30 students, *in Dutch*), 2015 – 2016, Taught jointly with Profs. F. De Proft and M. Leermakers.
- INTRODUCTION TO MATERIAL SCIENCES, bachelor in Archeology, (6 ECTS, average 30 students, *in Dutch*), 2010 – 2020 Taught jointly with Profs. K. Nys and other members of Archeology dept.
- ASTROBIOLOGY, Université de Liège, taught jointly with Prof. E. Javaux, Master in Geology & Master in Space Sciences, 2007 – 2015 (5 ECTS, average 20 students, *in French*).
- ENVIRONMENTAL CHEMISTRY, 1st master Chemistry, VUB & Ghent University, (3 ECTS, average 40 students, *in English*) 2014 – 2015.
- BIOGEOLOGICAL EVOLUTION OF THE EARTH, Master in Geobiology at the Katholieke Universiteit Leuven (KULeuven), taught jointly with Prof. R. Speijer (6 ECTS, average 5 students, *in English*), 2007 – 2013.

ACADEMIC MANAGEMENT AND SERVICES (SINCE 2001)

- *Member of the VUB Research Council board, 2020 – 2023*, evaluate & manage the global VUB research policy.
- Member of the *Tenure and Academic Promotion/Tenure Commission* within the Faculty of Science and Bio-Engineering Sciences (2012 – present).
- Member of the *VUB Bureau for International Relations & Advisory Board for Internationalization*, 2013 – 2015.
- Member of the Faculty of Science and Bio-Engineering Sciences, Research commission, guide the faculty research policy, review projects and nominations for research positions, 2017 – present.
- *Vice-President* of the Chemistry Department, Vrije Universiteit Brussel, 2014 – present.
- Member of the *VUB Work-conflict commission for academic personnel*, 2015 – present.
- Head of the *Internationalization Commission* of the Faculty of Science and Bio-Engineering Sciences, (responsibilities: supervise & manage the staff in charge of foreign students, researchers, visitors, & promote the faculty internationally) 2013 – 2015.

- President of the Education Commission the Faculty of Science and Bio-Engineering Education board, 2009-2014: duties propose, oversee, and improve the education program and create/approve new courses. *Example of Accomplishments:* re-organize and modernize the entire Bachelor program, established a partial exam period during 7th week of the 1st semester in 1st Bachelor to evaluate individual level of knowledge and progresses (highly appreciated by students); organize an optional course in mathematics in 1st Bachelor for more intensive training of students with a weakness in this field, established new master in Herpetology...
- Member of the VUB *Education Board* 2009-2014 (vice-president 2011-2014), advisor the Vice-Rector for Education, responsibilities: decide on the global education policy of the university, approve changes in the VUB education curriculum, implement decisions made by the Flemish Ministry of Education, and oversee internal quality control with the different education programs.
- President or member of several *search commissions* to recruit new faculty members at the VUB (such as Mathematics, 2006, Geography 2009, Astronomy 2013, Analytical Chemistry 2013, Computational chemistry, 2014...)
- Member of the *Research Commission*, Faculty of Science and Bio-Engineering Sciences 2006 – 2013
- Member of the *Public Relations Commission* of the Faculty of Science and Bio-Engineering Sciences 2001 – 2006
- Member of the *Education Commission*, Faculty of Science and Bio-Engineering Sciences 2001 - 2009
- Member of the *Doctoral Commission* of the Faculty of Science and Bio-Engineering Sciences, 2002 – 2004
- Special Advisor to the Dean of the Faculty of Sciences, and to the VUB Rector on the implementation of the EU Bologna agreement for the initiation of Bachelor/Master programs that completely reformed university education in Europe in 2004 (based on experience acquired in US).

SCIENTIFIC DISTINCTION, AWARD & PRICE

- Nanjing Institute of Geology and Palaeontology (NIGPAS) of the Chinese Academy of Science 2024-2025
- John Joly Memorial Lecturer for 2018, *Trinity College*, Dublin, Ireland.
- International Visiting Research Scholar, Peter Wall Institute for Advanced Studies University of British Columbia, Vancouver, BC, Canada 2016-2017.
- Prix Adolphe Wetrems 2013, given by the *Académie Royale des Sciences, des Lettres et des Beaux-Arts de Belgique*, for outstanding contribution in the Natural Sciences.
- Elected "Fellow" of the *Geological Society of America*, 2012
- Member of "*Collèges des Alumni*" of the "Académie Royale des Sciences, des Lettres et des Beaux Arts de Belgique", 2008
- Selected as one on the *Top 10 Flemish researchers* featured in a series of articles "*Vlaamse Top (Flanders top)*" by the weekly news magazine "Knack" documenting the career and work of scientists with top international reputation: 6 pages interview by scientific journalist Dirk Draulans, 2008
- Elected to Sigma-Xi, The Scientific Research Society, 1993
- Outstanding Student Research Award, The Geological Society of America, 1993
- Martin Van Couvering Award for Best Presentation at American Association of Petroleum Geologists Annual Meeting, 1992
- Graduate Student Teaching Award, University of California at Davis, 1989 - 1990
- Travel award granted by "*Ministère de la Communauté Française Belgique*" for master thesis, 1984

PARTICIPATION IN INTERNATIONAL RESEARCH NETWORKS (2001-PRESENT)

- EU- COST project: Life-Origins (TD1308), 2013-2017 member of management committee
- Co-Pi project "*Drilling the Late Jurassic Mjøltnir impact crater in the Barents Sea*", Norway Research Council & Petroleum Co. 2010-2011
- EUROCORE program "Paleosalt" of the European Science Foundation 2005 – 2009
- "International Lithosphere Program" by the "International Council of Science (ICSU), the International Union of Geological Sciences (IUGS) and the International Union of Geodesy and Geophysics (IUGG), 2004 - 2009 (<http://www.sclilp.org>)
- Participation to project "*Chemical behavior of siderophile elements in impact events: The lunar perspectives*" of Russian Academy of Science, Prof. M. Gerasimov, Russia, EU-INTAS network (2001 - 2004)
- Member of the "*Steering Committee*", European Science Foundation Program: Response of the Earth System to Impact Processes (1998 - 2003).

SCIENTIFIC EXTERNAL COLLABORATIONS

- AT NATIONAL LEVEL (ACTIVE LAST 5 YEARS)

- Dr. Pascal Godefroit, Royal Belgian Institute for Natural Sciences: biogeochemistry and histology of bones to understand crisis in ecosystems and dinosaur & marine reptile evolution in the Mesozoic (2013 – present).
- Prof. A-C Da Silva, (Univ. de Liège) and Prof. M. Crucifix (Univ. Catholique Louvain), Cyclostratigraphy, astrochronology and climate modelling in the Paleozoic
- Dr. V. Debaille and Prof. N. Mattielli (Univ. Libre de Bruxelles) Geochemistry of (micro)meteorites
- Profs R. Speijer & J. Vellekoop (KULeuven), Bio-geo-events in Earth History from the KT boundary to the PETM
- Prof. Ph. Degryse (KULeuven, Geology) and Prof. F. Vanhaecke, (Ghent Univ., Analytical chemistry), Development and applications of MC-ICP-MS isotope analyses in geosciences (Joint FWO funding since 2007)

- AT INTERNATIONAL LEVEL (ACTIVE LAST 5 YEARS)

- Study of the core recovered by IODP-ICDP expedition 364, drilling of the Chicxulub crater in Yucatan, with Profs. Jo Morgan (Imperial College London), Prof. Sean Gulick (University of Texas at Austin) + IODP-ICDP onshore party members, (2008 – present)
- Search for meteorites in the blue ice fields of Eastern Antarctica using the Belgian base Princess Elisabeth, in collaboration with National Institute of Polar Research (NIPR), Tokyo, Japan, Prof. Yoichi Motoyoshi, Prof. Akira Yamaguchi, Prof. Kazuyuki Shiraiishi, Prof. Takashi Mikouchi (University of Tokyo) (2009 – present).
- Isotopic Studies of Cremated Bone in Archaeological Contexts, and tracing population migrations and provenances of artefacts, Prof. Rick Schulting (University of Oxford), Prof. Janet Montgomery, University of Durham (2016 – present)
- Reproducibility in cyclostratigraphy: Initiating an Intercomparison project, with Dr. David De Vleeschouwer (Marum, University Bremen) and Dr. Christian Zeeden (Observatoire de Paris) (2016 – present, joint workshop scheduled in Brussels July 2024).
- Late Devonian, cyclostratigraphy, astrochronology, chemostratigraphy, timeframe and biotic crisis, with Prof. Lawrence Percival (Vrije Universiteit Amsterdam)
- Using fossil shells (bivalves, brachiopods,...) for high resolution (day, season, year) paleoclimatic reconstructions in deep-time using stable isotopes. Clumped isotopes and trace elements, with Prof. Niels de Winter (Vrije Universiteit Amsterdam).
- Studies of terrestrial impact craters and ejecta, with Prof. Christian Koeberl (University Vienna, 1995 – present)

- Research on the Cretaceous-Paleogene boundary impact event, with Prof. Walter Alvarez (UC Berkeley), Prof. Jan Smit (Vrije Universiteit Amsterdam), Prof. Alessandro Montanari (Osservatorio Geologico Coldigioco), (1989 – present).

MEMBER OF PHD JURIES

- AT THE VUB

- FREDERICO BARISELLI, Development of an ablation model for rarefield flows with application to meteoroid entry, 26 March 2020, (President of jury).
- SETH MOORTGAT, First measurement of the cross section of top quark pair production with additional charm jets with the CMS experiment, 20 May 2019.
- JONAS VERHOEVEN, Design, synthesis and biological evaluation of constrained furanose and nucleoside derivatives, 21 January 2019, (President of jury).
- TARA VANDERMARKEN, Development and implementation of the ERE-CALUX bioassay: Assessment of estrogens in the environments and in food packaging materials, April 2018.
- HARRY ZEKOLLARI, Modelling the evolution of glaciers and ice caps in a changing climate, 9 June 2017 (jury secretary).
- BENOÎT SMETS, Dynamics of volcanic activity in a youthful extensional setting studied by means of remote sensing and ground-based monitoring techniques, 8 November 2015
- JAN KUNNEN, A search for dark matter in the center of the Earth with the IceCube neutrino detector, 26 November 2015
- STIJN BLYWEERT: Measurement of the top quark mass and the difference of top and anti-top mass, 18 October 2013
- JAN VRIJENS: Trace metal analyses in the general Flemish population and in the hot spots Genk-Zuid and Menen, April 2013
- AURÉLIE MAGNIER: Trace metal speciation in river waters from urban and industrial areas, May 2012, (jury secretary)
- ANNE-JULIE CAVAGNA: The biological carbon pump of the Southern Ocean, 3 study-cases, 3 stable isotope tools, Dept. of Chemistry, October 2010 (jury president)
- STÉPHANIE JACQUET: Barium in the Southern Ocean: Towards an estimation of twilight zone C mineralization, Dept. of Chemistry, May 2007
- DAVID GILLIKIN: Geochemistry of Marine Bivalve Shells: the potential for paleoenvironmental reconstruction, Dept. of Chemistry, July 2005 (jury president)
- MARGARET CHEN: Suspended matter and flocculation in the estuarine environment, Dept. of Chemistry, September 2003
- KOEN PARMENTIER: Trace metals in the Schelde estuary, Dept. of Chemistry, June 2003.
- BORIS DEHANDSCHUTTER: Study of recent structural evolution of continental basins in Altai-Sayan (Central Asia), Dept. of Geology, Sept. 2001 (jury president)
- SOPHIE VERHEYDEN: Speleothems as paleoclimate archives, Dept. of Geology, May 2001
- KOEN VAN DEN DRIESSCHE: Potentials of stable water isotopes as natural tracers in the Schelde basin, Dept. of Geology, April 2001

- AT OTHER UNIVERSITIES

- KATERINA RODIOUCHKINA, Evaluation and application of sulfur isotopic analysis in samples of biological and geological origin using multi-collector ICP-MS, Ghent University, 23 May 2023
- SIMON D'HAENEN, Characterization of early Eocene hyperthermals using benthic foraminiferal assemblages and stable isotopes, Katholieke Universiteit Leuven, 25 April 2016

- ANDREA BAZZANO, Isotopic analysis of environmental samples using inductively coupled plasma mass spectrometry, University of Genoa, Doctoral school of Chemical and Materials Sciences and Technologies, 8 March 2016
- ABDUS SAMAD AZAD: Sedimentation in the Ritland impact structure, western Norway, University of Oslo, Norway, 27 May 2013
- CLEMENT SUAVET: Contribution à la caractérisation physique et isotopique des micrométéorites, Université de Aix-Marseille III, CEREGE, June 2009.
- LOUISE CONEY: Petrology and geochemistry of impactites from the Bosumtwi crater (Ghana), Univ. of Witwatersrand, South Africa, December 2008
- DR. ERIC ROBIN: (thèse d'habilitation à diriger la recherche), Des micrométéorites aux impacts de météorites, Université Paris XI, Orsay, June 2008
- STIJN DEWALEDE: Metallogenesis at the Southern margin of the Anglo-Brabant fold belt, Belgium. Katholieke Univ. Leuven, May 2004
- FABRICE MINOLETTI: Mise au point d'un protocole de separation des assemblages de nannofossiles calcaires. Apport a la micropaleontologie et a la geochemie des producteurs carbonates pelagiques, Univ. Paris VII, Geology, Dec. 2002
- EMMA BOWDEN: Effects of loading path on the shock metamorphism of porous quartz: An experimental study, Univ. College London, Mai 2002.

RESPONSIBILITIES IN SCIENTIFIC COMMISSIONS, SCIENTIFIC UNIONS, EVALUATION BOARDS (SINCE 2001)

- NATIONAL

- Member of the expert panel W&T8: *Earth & Space Sciences*, FWO Research Foundation Flanders, (2021-present).
- Member of the Panel Earth System Sciences, *VolkswagenStiftung*, Hannover, Germany, (2024 – present)
- Member of the advisory board of Scientific Policy council of the Brussels Capital Region (2011 – 2023)
- Member of *Scientific Advisory Committee* of EIG Euridice (*European Underground Research Infrastructure for Disposal of nuclear waste In Clay Environment*) an Economic Interest Grouping (EIG) involving the Belgian Nuclear Research Centre SCK-CEN and the Belgian Agency for Radioactive Waste & Enriched Fissile Materials (ONDRAF/ NIRAS) (2013 - 2017)
- President of "*Geologica Belgica*", the Belgian Association of Geologists (2011 - 2013).
- Member of the Inter-University Attraction Pole (IUAP) *Planet TOPERS* (Planets: Tracing the Transfer, Origin, Preservation, and Evolution of their ReservoirS), (2012-2017).
- Member (2010-2012), Vice-president (2013 – 2014) and President (2015-16) of the expert panel W&T8: *Earth & Space Sciences*, FWO Research Foundation Flanders, (2010 - 2016)
- Member of Evaluation commission: Research programmes and Actions at Belgian Scientific Institutes – Space Pole, (2008 – 2010)
- Member FNRS Research Funding Belgian French Community, Commission Scientifique Géographie, Géologie, Minéralogie, (2003-2010)
- National Committee of the Geological Sciences of the Royal Academies for Sciences and the Arts of Belgium (2002 – 2017)
- National Committee of the Quaternary Sciences of the Royal Academies for Sciences and the Arts of Belgium (2005 – 2011)
- Head of the Belgian committee in charge of organization of events for the "*International Year of Planet Earth*" (2007 – 2009), <http://www.anneedelaterre.be/nl/index.html>
- Organization board of Earth and Space Week (7 – 11 April 2008) to promote Earth and Space Sciences among Belgian high school students (<http://www.eurospace.be>)

- *INTERNATIONAL*

- Chair of the *Executive Committee* of the International Continental Scientific Drilling Program (ICDP, <http://www.icdp-online.org/home/>), advises on ICDP drilling project funding 2022 – present, vice-Chair (2020-2021), member since 2019.
- Member of the *Geological Society of America Program Committee*, responsible for increasing the quality of the Society Meetings in terms of science, education, and outreach, 2019-2023.
- Member of the *Science Advisory Group* of the International Continental Scientific Drilling Program (ICDP, <http://www.icdp-online.org/home/>), which evaluates submitted drilling/workshop proposals, 2014 – 2018.
- Member of the management committee of the EU Cost Action TD1308 Origins (Origins and Evolution of Life on Earth and in the Universe <http://www.cost.eu/COSTActions/TDP/Actions/TD1308>), 2014 – 2018.
- Member of the review panel of *Aarhus Institute of Advanced Studies* at Aarhus University, Denmark, which evaluates the researcher fellowships in 2018-2019.
- Member of the *High Council for Evaluation and Research and Higher Education*, France (HCERES, <http://www.hceres.fr/>) commission in charge of the evaluation of the CEREGE (Centre Européen de Recherche et d'Enseignement des Géosciences et de l'Environnement), Aix en Provence, France, November 2016.
- Member of review board of the "Nordic Top-level Research Initiative: NordForsk's Call *Collaboration Projects Green Growth in an Era of Climate Change*", in 2013 & 2015.
- Member of the "*Geology and Public Policy Committee (GPPC)*" of the Geological Society of America (GSA), GPPC is an important and active organ of the GSA governance structure dealing with public issues and policy makers (2010 – 2013).
- Member of review board" of the "Darwin center for Biogeology" Universiteit Utrecht (2006 – 2007).
- Belgian representative within the "*International Lithosphere Program*" of the "International Council of Science (ICSU), the International Union of Geological Sciences (IUGS) and the International Union of Geodesy and Geophysics (IUGG) (2004 - 2010) (<http://www.sclilp.org>).
- Secretary of the Steering Committee of the European Science Foundation Program: *Response of the Earth System to Impact Processes* (1998-2003).

GUEST PROFESSOR OR VISITING RESEARCHER (EXTENDED STAYS)

- Visiting Professor, Nanjing Institute of Geology and Palaeontology, Chinese Academy of Science, China, (2023-2025)
- Visiting Professor, dept. of Earth, Ocean and Atmospheric Sciences, University of British Columbia, Canada, & Peter Wall Institute's International Visiting Research Scholar, (2016-2017).
- MARUM, University of Bremen, onshore sampling party IODP-ICDP expedition 364, September – October 2016.
- University of California, Berkeley, Dept. of Earth & Planetary Science, California, December 2009 & 2008, Summer 2008, 2009, 2012.
- Planetary Science Institute, Tucson, Arizona, December 2010.
- Planetary Institute, Tucson Arizona, July – August 2007
- University of Copenhagen, September 2006, impact process and the KT boundary event, in the framework of a joint Master program course for Scandinavian Universities
- Centre de Recherche Petrographique et Geochemique de Nancy & Université de Nancy course: "Processus d'impact dans le système solaire", in the Master program "Sciences Planétaires" March 2006, + field trip at the Ries crater, Germany
- Université de Bordeaux, 1^e Journées Exobiologiques de Bordeaux, "*Origines de la vie sur Terre et vie dans l'Univers*", May 2006
- January 1998 – November 1998, Guest professor (professeur invité), Ecole des Mines de Paris, France

- October 1993 – December 1993, Guest professor, University of Camerino, Italy

EXAMPLES OF INVITED LECTURES

- Dept. Earth & Planetary Science, University of California at Berkeley, US, 13 December 2023
- Nanjing Institute of Geology and Palaeontology, Chinese Academy of Science, China, 9 October 2023.
- Geosciences Seminar: University of Roma 3 & La Sapienza, Roma, Italy, May 31, 2023
- Attarik Foundation Meteorite Museum, Marina Mall Casablanca, Morocco, November 26, 2022
- Ain Chock Université Hassan II, Faculté des Sciences, Casablanca, Morocco, November 23, 2022
- GEOTOP McGill University, Speaker Seminar, Montréal, Canada, October 25, 2022.
- Université du Québec Montréal, Département Sciences de la terre et de l'atmosphère, October 20, 2022.
- Physical Research Laboratory, Ahmedabad, India, *Online Lecture*, August 04, 2022
- Institute of Geosciences, University of Brasilia, Brazil, *Online Lecture*, September 29, 2021
- Koninklijke Nederlandse Akademie van de Wetenschappen (KNAW, Dutch Academy of Sciences), Amsterdam, NL, November, 14, 2019
- Belgian Association for Palaeontology, Lecture, Brussels, October 23, 2019
- Ghent University, Dept. of Geology, Public lecture, Ghent, April 5, 2019
- Collège Belgique, Académie Royale de Belgique, Namur, Lecture April 3, 2019
- Northwest University, Dept. of Chemistry, Xi'An, China, Seminar March 29, 2019
- Northwest University, Dept. of Geology, Xi'An, China, Lecture March 28, 2019.
- Université du Québec à Montréal, Département Sciences de la terre et de l'atmosphère, Lecture, November 8, 2018.
- Trinity College, Dublin, John Joly Memorial Lecture 2018, February 8, 2018.
- GEOTOP McGill University, Speaker Seminar, Montréal, October 19, 2017.
- University of British Columbia, Dept. of Earth, Ocean and Atmospheric Sciences, Lecture, April 13, 2017
- Peter Wall Institute for Advanced Studies, University of British Columbia, Lunch seminar March 8, 2017
- Université du Québec at Montréal, Dept. Sciences de la terre et de l'atmosphère, undergraduate-graduate seminar, October 29, 2015
- Tokyo Metropolitan University, The Global Human Resource Program Bridging Across Physics & Chemistry, Tokyo, Japan, January 31, 2014 (<http://www.comp.tmu.ac.jp/tmuorg/topGP.html>)
- ActUA – Antwerp University, Antwerpen, Belgium, January 9, 2014.
- Groupe de recherche interuniversitaire sur les eaux souterraines (GRIES) et l'Association Internationale des hydrogéologues (AIH-Qc), Montreal, Québec, Canada, September 25, 2013
- GEOTOP, McGill University, Montreal, Québec, Canada, September 23, 2013
- Université du Québec à Montréal, dept. Science de la Terre et de l'Atmosphère, Montréal, Québec, Canada, September 26, 2013
- Museum National d'Histoire Naturelle, Paris, France, June 12, 2013
- University of Oslo, Oslo, Norway, May 28, 2013,
- Max Plank Institute for Chemistry, Mainz, Germany, May 23, 2012
- 15th Sigma-Aldrich organic synthesis Symposium, Spa, Belgium, December 1st 2011
- American Association of Petroleum Geologists, Ghent Chapter, February 15, 2011
- Graduate School of Science & Engineering, Tokyo Metropolitan University, Tokyo, June 11, 2010
- Association of Geologists from Ghent University, Ghent, December 10, 2009,

- Dept. of Geological and Environmental Sciences, Stanford University, Palo Alto, Ca. August 12, 2009
- CEREGE (Centre Européen de Recherche et Enseignement des Géosciences et de l'Environnement), Aix en Provence, France, July 1, 2009
- Collège Belgique de l'Académie Royale des Sciences, des Lettres et des Beaux-Arts, Brussels, February 5, 2009
- Paleontological Institute, Shenyang, China, November 20, 2008
- Geoscience Research Center, Jilin University of Changchun, Changchun, China, November 16, 2008
- Getty Conservation Center, Los Angeles, CA, USA, August 6, 2008
- Southwest Research Institute, Boulder, Co. USA, October 26, 2007
- Belgian National Committee for Geodesy and Geophysics, Royal Observatory, Uccle, March 8, 2007
- Museum d'Histoire Naturelle, Paris, France, April 25, 2006
- University of California at Berkeley, Celebration in honor of Walter Alvarez, January 7, 2006
- Université de Liège, Geologica Belgica "day of the young scientists, Liège, October 7, 2005
- International Meteor Conference, Oostmalle, Belgium, September 16, 2005.
- Académie Royale de Belgique, classes des Sciences, Brussels, Belgium, July 3, 2004
- Centre de Recherche Pétrographique et Géochimique CNRS, Nancy, France, March 11, 2004.
- Université de Liège, Dept. de Géologie, Liège, Belgium, November 18 2003,
- Collège de France, "*Chaire de biologie historique et évolutionnisme*" Paris, France, June 10-11 2002
- Mesozoic – Cenozoic Bio-Events Conference, Museum fuer Naturkunde, Berlin, Germany, November 2002
- European Space Agency, Noordwijk, The Netherlands, June 2002
- Musée des Dinosaures, Espéraza, France, September 1999
- Universitaet zu Kiel, Institut fuer Geophysik, Kiel, Germany, Jan. 1999.
- University College London, Dept. of Earth Sciences, London, UK, Dec. 1998
- Ecole des mines de Paris, Paris, France, Nov. 1998
- Katholieke Universiteit Leuven, Dept. of Geosciences, Belgium, Nov. 1998
- Universitaet Potsdam, Institut fuer Geowissenschaft, Potsdam, Germany, June 1998
- Instituto de Geologia, Universidad Nacional Autónoma de México, Mexico, March 1998
- University of California at Davis, Dept. of Geology, Davis California, Dec. 1997
- Lawrence Berkeley National Laboratory, Guest Professor Seminar, Dec. 1997
- Universitaet Erlangen, Institut fuer Geologie, Erlangen, Germany, June 1996
- University of California at Berkeley Dept. of Geology and Geophysics, California, March 1996
- Stanford University, Dept. of Earth Sciences, March 1995
- Université Libre de Bruxelles, Faculté des Sciences, conférence facultaire, November 1994
- Association française des professeurs de biologie-géologie (APBG), November 1994.

EXAMPLES OF INVITED TALKS AT SCIENTIFIC MEETINGS

- Mediterranean Geosciences Union meeting, Cadi Ayyad University, invited speaker in Astrogeology, Impact Crater, and Meteorites session November 29, 2022
- Mediterranean Geosciences Union meeting, Cadi Ayyad University, Keynote speaker inauguration session, November 28, 2022
- Geology meets Archaeology along the BC coast, Workshop organized by the Peter Wall Institute of Advanced Studies at the University of British Columbia, *The Younger Drias event is not related to asteroid*

or comet impact, Sept. 12, 2017, <https://pwias.ubc.ca/event/geology-meets-archaeology-along-the-bc-coast>

- Ocean desoxygenation in time of climate changes, Workshop organized by the Peter Wall Institute of Advanced Studies at the University of British Columbia, *Anoxic oceans in the Paleozoic and their connection to orbital parameters*, Sept. 07, 2017, <https://pwias.ubc.ca/event/ocean-deoxygenation-in-time-climate-change>
- Japan Astro-physics & -chemistry meeting, Tokyo Metropolitan University, Tokyo, Japan, January 29 – 30, 2014, *Antarctic Meteorite Search: Belgian Research Program*
- Geological Society of America, Annual Meeting, Denver, October 3, 2010, *Formation of the mega-block zone during the Chicxulub cratering event*
- 33rd International Symposium on Antarctic Meteorites, Tokyo, Japan, June 8, 2010, *Antarctic Meteorite Search: Belgian Activities*
- 63rd Geological Congress of Turkey, Ankara, Turkey, April 8, 2010, *Biogeoevolution: Interactions from the Planetary Scale Down to the Micro-scale of the Fungi, Bacteria and Mineral Worlds*
- Geological Society of America, Annual Meeting, Houston, November 7, 2008, *The Chicxulub Impact Melt-Rock*.
- American Geophysical Meeting, San Francisco, December 11, 2007, *Cause(s) of the elevated bombardment in the late Eocene*
- Deep Impact as a World Observatory Event, Workshop organized by European Southern Observatory, Brussels, August 8, 2006,
- European Space Agency 40th ESLAB Symposium: First International Conference on Impact Cratering in the Solar System - ESTEC, Noordwijk, The Netherlands, 8 – 12 May 2006
- Exobio 03 "Des atomes aux planètes, sur les chemins de la vie" Ecole doctorale du CNRS, Propriano, Corsica France, September 20-27, 2003
- Keynote speaker Conferencia Internacional Bioeventos, Murica, Spain, June 3-8 2003
- EGS-AGU-EUG 7 April 2003, Joint assembly, *Union Symposium: The Chicxulub crater Scientific Drilling Project: cratering processes and the K/T boundary link*, Nice Nice France, 7 April 2003
- Mesozoic – Cenozoic Bioevents conference, Natural History Museum, Berlin, Germany Nov. 21-22, 2002
- Geological Society of America, Annual Meeting, *Session: Impact Stratigraphy*, Denver, Co. USA, 29 Oct. 2002
- European Space Agency, 36 ESLAB Symposium *Earth like planets and Moons*, Noordwijk, The Netherlands, June 5, 2002.
- European Geophysical Society, XXVII General Assembly, *Session: Risk assessment and Implications of Near-Earth Object Impacts*, Nice, France, 26 April, 2002.

SCIENTIFIC EXPEDITIONS AND FIELD WORK (EXTENDED STAYS)

- Field work in Shaanxi & Sichuan provinces, West of Xi'an, Centra China, Neoproterozoic outcrops sampling and stratigraphy, 1 week, March-April 2019
- Field work in North Quebec and Ontario, visit and sampling of impact craters and potential ejecta formation (Sudbury, Charlevoix, Chibougamau), 4 weeks during summer 2014
- Study of Cretaceous-Tertiary Boundary outcrops in Yucatan and Chiapas, Mexico, May & July 2013
- Study of Cretaceous-Tertiary Boundary outcrops in Yucatan, Belize and Chiapas, Mexico, July 2011
- Sampling of Cretaceous-Tertiary Boundary outcrops in the Denver Basin, April 2010,
- Geo-Archeological study of Late Bronze Age site of Hala Sultan Tekke, Larnaca, & field work sampling geological formation around Cyprus, April 2005, April 2007, March 2008 (<http://www.vub.ac.be/geoarchaeology/>)

- Study and sampling of Cretaceous-Tertiary Boundary outcrops in Colorado & New Mexico, USA, November 2004
- Bosumtwi crater drilling project, Lake Bosumtwi, Kumasi region, Ghana, September-October 2004, (<http://www.icdp-online.org/frontcontent.php?idcat=391>), on-site participation to the drilling within the impactite sequence.
- Study and sampling of Upper Cretaceous and Cretaceous-Tertiary Boundary outcrops in the Apennines, Marche region, Italy, Summers 2003, 2006, 2010
- Popigai Crater, Anabar Shield, Northern Siberia, German-Canadian fieldwork expedition (first by non-Russian scientists) to this crater (N71°39', E111°11'), July – August 1997.

EXAMPLE OF FUNCTIONS AND ORGANIZATION OF SCIENTIFIC MEETINGS

- Co-organizer, Workshop: *Cyclostratigraphy Intercomparison Project 2*, Palace of the Academies, Brussels, July 08 – 10, 2024.
- Co-organizer, Workshop: *Cyclostratigraphy Intercomparison Project*, Palace of the Academies, Brussels, July 30 – Aug. 1st 2018, <http://we.vub.ac.be/en/cyclostratigraphy-intercomparison-project>
- Co-Chairman & Co-Organizer with Prof. David Kring of a GSA *Pardee Keynote Symposium* "IODP-ICDP Expedition 364 to the Chicxulub Impact Crater at the 2017 Annual Geological Society Meeting in Seattle, WA. USA, Oct. 24, 2017 (<http://community.geosociety.org/gsa2017/science-careers/sessions/pardee>).
- Co-Organizer of a topical session at the 2017 Annual Geological Society Meeting in Seattle, WA. USA "Impact Cratering: From Fire to Ice—Cratering across the Solar System (oral & Posters) (GSA Planetary Geology Division; GSA Geophysics Division; GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division; GSA Structural Geology and Tectonics Division)" Oct. 23, 2017 (<https://gsa.confex.com/gsa/2017AM/webprogram/Session43095.html>)
- Chairman & (Co) Organizer of a GSA *Pardee Keynote Symposium* "Back to the Future: Eocene–Early Oligocene Climatic Response to Geological Processes and Implications for the Future Earth" during the 2013 Annual Geological Society Meeting in Denver, Co. USA, 30 October 2013, (<http://community.geosociety.org/2013AnnualMeeting/Sessions/Keynote>).
- Session (Co) organizer & chairman "Younger Dryas: Extraterrestrial impact or not?" American Geophysical Union Fall Meeting, San Francisco, CA, USA, December 16, 2009 (<http://www.agu.org/meetings/fm09/fm09-sessions/fm09PP31D.html>)
- Organization of the *Calewaert Chair 2009*, "Darwin & Evolution" VUB, Faculty of Sciences and Bioengineering, invitation, and hosting of 7 external speakers, co-organizer with Edward Keppens, February – March – April 2009
- Co-organizer of the *Workshop* "Marine impacts and the environmental consequences: the Mjølñir scientific drilling project", September 2007, Svalbard, Norway,
- Member of the scientific committee of the school "Exobio 07" organized by the CNRS September, 2007, Propriano, Corsica
- Co-Organizer and co-field trip leader: Geological Society of America Field Forum: *Bolide impact on wet targets*, Nevada, USA, 23-28 April 2001
- Member of the "comité scientifique" van Exobio 05, organized by the CNRS September 2005, Propriano, Corsica
- Convenor session: Ejecta distribution in Earth History, European Geophysical Society Meeting, Nice, France, 7 – 11 April 2004
- Convenor/chairman: Special session: Impacts and asteroid hazards, Goldschmidt Conference of Geochemistry, Davos, Switzerland, 18 - 23 August 2002
- Co-organizer and field trip leader: Geological Society of America Field Forum: *Bolide impact on wet targets*, Nevada, USA, 23 - 28 April 2001
- Co-organizer 7th Meeting of the ESF Impact program: Submarine Craters and Ejecta-Crater Correlation, Svalbard, Norway, 28 August – 3 September 2001.

PROFESSIONAL MEMBERSHIPS

American Association for Advancement of Science, Geochemical society, Meteoritical society, Geological Society of America, American Geophysical Union, Geologica Belgica.

PERSONAL INFORMATION

Born July 2nd 1961

Citizenship: Belgian, Marital status: Married, two children born in 1993 & 1998

Languages: Able of fully function in English, French and Dutch, practical working knowledge of German, basic Spanish, Italian and Portuguese

PUBLICATIONS

- Philosophy: Promote 1st authorship of early career researchers (ECR=PhD or Post-doct), claim last position for projects initiated, funded & directed.
- Last 5 years > 95% of publications in OA (list in VUB PURE database) & most with international collaboration.
- [Google Scholar](https://scholar.google.co.uk/citations?user=I06UZw8AAAAAJ&hl=en) H-index=51; profile <https://scholar.google.co.uk/citations?user=I06UZw8AAAAAJ&hl=en>
- [Web of Science](https://www.webofscience.com/wos/author/record/1119724) H-index=40; profile <https://www.webofscience.com/wos/author/record/1119724>
- Full output list on VUB PURE database [https://cris.vub.be/en/persons/philippe-claeys\(9592892d-34aa-4932-ae74-37f407c45f35\)/publications.html](https://cris.vub.be/en/persons/philippe-claeys(9592892d-34aa-4932-ae74-37f407c45f35)/publications.html)
- Research ID B-4895-2008; ORCID Nr: 0000-0002-4585-7687

A) ARTICLES IN INTERNATIONAL PEER REVIEWED JOURNALS (* INDICATES PHD STUDENT OR POSTDOC AS 1ST AUTHOR)

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237. Kaskes, P., Marchegiano, M., Peral, M., Goderis, S., Claeys, Ph., Hot carbonates deep within the Chicxulub impact structure, *PNAS Nexus*, 3, 1, 2024, pgad414, <https://doi.org/10.1093/pnasnexus/pgad414> [No IF yet]
236. Marchegiano, M., Peral, M., Doyle, R., Antonio, G-A., Alexander, F., Snoeck, C., Goderis, S., Claeys, Ph., Temperature and hydrological variations during the late-glacial in the Central Mediterranean: Application of the novel ostracod-clumped isotope thermometer, *Earth and Planetary Science Letters*, 625, 118470, <https://doi.org/10.1016/j.epsl.2023.118470> [IF 5.3]
235. Wauthy, S. Tison, J-L., Inoue, M. El Amri, S., Sun, S., Fripiat, F. Claeys, Ph., Pattyn, F. Spatial and temporal variability of environmental proxies from the top 120 of two ice cores in Dronning Maud Land (East Antarctica), *Earth System Science Data*, 16,1, 35-58, <https://essd.copernicus.org/articles/16/35/2024/> [IF 11,815]

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234. Blard, P-H., Protin, M., Tison, J-L., Fripiat, F., Dahl-Jensen, D., Steffensen, J.P., Mahaney, W.C., Bierman, P.R., Christ, A.J., Corbett, L.B., Debaille, V., Rigaudier, T., Claeys, Ph. And Aster Team, Basal debris of the NEEM ice core, Greenland: a window into sub-ice-sheet geology, basal ice processes and ice sheet oscillations, *Journal of Glaciology*, 69, 276, 1011-1019, 2023, <https://doi.org/10.1017/jog.2022.122> [IF 3.4]
233. Debaille, V., Schönbächler, M., Valdes, M., Maeda, R., Poudelet, M., Goderis, S., Heck, P.R., Tollenaar, V., Zekollari, H., Claeys, Ph., Comprehensive report of the BELARE 2022-2023 meteorite reconnaissance expedition in the Sør Rondane area, East Antarctica, *Antarctic Record*, 67, 12-27, 2023, <https://doi.org/10.15094/0002000048>
232. de Winter*, N.J., van Sikkeleras, S., Goudsmit-Harzevoort, B., Boer, W., de Nooijer, L., Reichart, G-J., Claeys, Ph., Witbaard, R., Tracing timing of growth in cultured molluscs using strontium spiking. *Frontiers Marine Science*, 10:1157929, 1-21, 2023, doi: 10.3389/fmars.2023.1157929 [IF 5.247]
231. de Graaff*, S., Ross, C.H., Feignon*, J.G., Kaskes*, P., Gulick, S.P., Goderis, S., Dehais*, T., Debaille, V., Ross, C., Ferriere, L., Koeberl, C., Mattielli, N., Stockli D.F., Claeys, Ph., The Chicxulub impact structure reveals the first in-situ Jurassic magmatic intrusions of the Yucatan Peninsula, Mexico, following the 2016 IODP-ICDP Expedition 364, *Lithos*, 436-437, #106953, 2023, <https://doi.org/10.1016/j.lithos.2022.106953>, [IF 4.02]
230. Holliday, V.T., Daulton, T.L., Bartlein, P.J., Boslough, M.B., Breslawski, R.P., Fisher, A.E., Jorgeson, I.A., Scott, A.C., Koeberl, C., Marlon, J., Severinghaus, J., Petraev, M.I., Claeys, Ph., Comprehensive refutation of the Younger Dryas Impact Hypothesis (YDIH), *Earth Science Reviews*, #104502, <https://doi.org/10.1016/j.earscirev.2023.104502> [IF 12,1]
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227. Maeda*, R., Van Acker, T., Vanhaecke, F., Yamaguchi, A., Debaille, V., Claeys, Ph. Goderis, S., Quantitative elemental mapping of chondritic meteorites using laser ablation-inductively coupled plasma-time of flight-mass spectrometry (LA-ICP-TOF-MS), *Journal of Analytical Atomic Spectrometry*, 38, 369-381, 2023, <https://doi.org/10.1039/D2JA00317A> [IF 4.351]
226. Nehme, C., Todisco, D., Breitenbach, S.F.M., Couchoud, I., Marchegiano, M., Peral., M., Vonhof, H., Hellestrom, J., Tjallingii, R., Claeys, Ph., Borrero, L., Martin, F., Holocene hydroclimate variability along the Southern Patagonian margin (Chile) reconstructed from Cueva Chica speleothems, *Global and Planetary Changes*, 222, 104050, 2023, <https://doi.org/10.1016/j.gloplacha.2023.104050>, [IF 4.956]
225. Nehme, C., Verheyden, S., Kluge, T., Nader, F.H., Edwards, L., Cheng, H., Eiche, E., Claeys, Ph., Climate variability in the northern Levant from the highly resolved Qadisha record (Lebanon) during the Holocene optimum, *Quaternary Research*, 1-15, 2023, <https://doi.org/10.1017/qua.2023.24>, [IF 2,963]
224. Percival, L.M.E., Ownsworth, E., Robinson, S.A., Selby, D., Goderis, S., and Claeys, Ph. Valanginian climate cooling and environmental change driven by Paraná-Etendeka basalt erosion, *Geology*, 2023, <https://doi.org/10.1130/G51202.1>, [IF 6,324]
223. Rider-Stokes, B.G., Greenwood, R.C., Anand, M., White, L.F., Franchi, I.A., Debaille, V., Goderis, S., Pittarello, L., Yamaguchi, A., Mikouchi, T., Claeys, Ph., Impact mixing among rocky planetesimals in the early Solar System form angrite oxygen isotopes, *Nature Astronomy*, 1-7, 2023, <https://doi.org/10.1038/s41550-023-01968-0> [IF 15,647]
222. Senel, C. B., Kaskes, P., Temel, O., Vellekoop J., Goderis, S., DePalma, R., Prins, M. A., Claeys, Ph. Karatekin, O., Chicxulub impact winter sustained by fine silicate dust, *Nature Geoscience*, 16, 1033-1044, 2023, <https://doi.org/10.1038/s41561-023-01290-4>, [19,6]
221. Serra, C., Vinogradoff, V., Poinot, P., Blanchart Remaury, Q., Duvernay, F., Le Sergeant d'Hendrecourt, L., Danger, G., Claeys, Ph. Goderis, S., Schmitt-Kopplin, Ph., Assessing the effect of aqueous alteration on soluble organic matter in primitive carbonaceous chondrites: The case of Asuka 12236, *ACS Earth Space Chemistry*, 7, 10, 1980-1991, 2023 <https://doi.org/10.1021/acsearthspacechem.3c00106>, [IF 3.4]
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219. Wauthy, S., Tison, J-L., Inoue, M., El Amri, S., Sun, S., Claeys, Ph. Pattyn, F., Physico-chemical properties of the top 120 m of two ice cores in Dronning Maud Land (East Antarctica): An open window on spatial and temporal regional variability of environmental proxies, *Earth System Science Data Discussion*, 2023, <https://doi.org/10.5194/essd-2023-152> [IF 11,815]
218. Wichern, N.M.A., de Winter, N.J., Johnson, A.L.A., Goolaerts, S., Wesselingh, F., Hamers, M.F., Kaskes, P., Claeys, Ph., Ziegler, M., The fossil bivalve *Angulus benedeni*: a potential seasonally resolved stable isotope based climate archive to investigate Pliocene temperature in the southern North Sea basin, *Biogeosciences*, 20, 21317-2345, 2023, <https://doi.org/10.5194/bg-20-2317-2023>. [IF 5.092]
217. Wichern, N.M.A., Bialik O.M., Nohl, T., Percival L.M.E., Becker, T., Kaskes, P., Claeys, Ph., De Vleeschouwer, D., Astronomically paced climate and carbon-cycle feedbacks in the lead-up to Late Devonian Kellewasser crisis, *Climate of the Past Discussions*, <https://doi.org/10.5194/cp-2023-58>. [IF 4.295]

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216. Cavitte, M.G.P., Goose, H., Wauthy, S., Kausch, T., Tison, J.L., Van Liefferinge, B., Pattyn, F., Lenaerts, J.T.M., Claeys, Ph., From ice core to ground-penetrating radar: representativeness of SMB at three ice rises along the Princess Ragnhild Coast, East Antarctica, *Journal of Glaciology*, 1-13, 2022, [doi:10.1017/jog.2022.39](https://doi.org/10.1017/jog.2022.39), [IF 3.142]
215. de Graaff*, S., Kaskes, P., Dehais, T., Goderis, S., Debaille, V., Ross, C., Gulick, S.P., Feignon, J.G., Ferriere, L., Koeberl, C., Smit, J., Mattielli, N., Claeys, Ph., New insights into the formation and emplacement of impact melt rocks within the Chicxulub impact structure, following the 2016 IODP-

- ICDP Expedition 364, *Geological Society of America Bulletin*, 134 (1-2): 293–315, 2022, <https://doi.org/10.1130/B35795.1>, [IF 4.368]
214. de Graaff*, Percival, L.M.E., Kaskes, P., Déhais, T., de Winter, N.J., Jansen, M., N., Smit, J., Sinnesael, M., Vellekoop, J., Sato, H., Ishikawa, A., Spassov, S., Claeys, Ph., Goderis, S., Geochemical record of the end-Triassic crisis preserved in a deep marine section of the Budva Basin, Dinarides, Montenegro, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 606, 11125, 1-17, 2022, <https://doi.org/10.1016/j.palaeo.2022.111250> [IF 3,565]
213. Déhais*, T., Chernonozhkin, S., Kaskes, P., de Graaff, S., Debaille, V., Vanhaecke, F., Claeys, Ph., Goderis, S., Resolving impact volatilization and condensation from target rock mixing and hydrothermal overprinting within the Chicxulub impact structure, *Geosciences Frontiers*, #101401, 2022, <https://doi.org/10.1016/j.gsf.2022.101410>, [IF 6.854]
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210. Feignon*, J-G., Schulz, T., Ferrière, L., Goderis, S., de Graaff, S.J., Kaskes, P., Déhais, T., Claeys, Ph., Koeberl, C., Search for a meteoritic component within the impact melt rocks of the Chicxulub impact structure peak ring, Mexico, *Geochimica Cosmochimica Acta*, 323, 74-101, 2022, <https://doi.org/10.1016/j.gca.2022.02.006>, [IF 5.101]
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208. Lampe*, S., Soens*, B., Chernonozhkin, S., Gonzalez de Vage, van Ginneken, M., Van Maldeghem, Vanhaecke, F., Glass, B.P., Franchi, I.A., Terryn, H., Debaille, V., Claeys, Ph. Goderis, S., Decoupling of chemical and isotope fractionation processes during atmospheric heating of micrometeorites, *Geochimica Cosmochimica Acta*, 324, 221-239, 2022, <https://doi.org/10.1016/j.gca.2022.02.008>, [IF 5.101]
207. Percival*, L.M.E., Marynowski, L., Baudin, F., Goderis, S., De Vleeschouwer, D., Rakocinski, M., Narkiewicz, K., Corradini, C. Da Silva, A.C., Claeys, Ph., Combined Nitrogen Isotope and Cyclostratigraphy Evidence for Temporal and Spatial Variability in Frasnian-Famnenian Environmental Changes, *Geochemistry, Geophysics, Geosystems*, 23, 5, e2021GCO10308, 2022, <https://doi.org/10.1029/2021GCO10308> [IF 3.624]
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204. Schmitt, K.E., Huck S., Krummacker, M., de Winter, N.J., Godet, A., Claeys, Ph., Heimhofer, U., Radiolitic rudists: an underestimated archive for Cretaceous climate reconstruction? *Lethaia*, 55, 4, 1-21, 2022, <https://doi.org/10.18261/let.55.4.4>, [IF 2.247]
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202. Soens*, B., Chernonozhkin, S., M., de Vega, C.G., Vanhaecke, F., Van Ginneken, M., Claeys, Ph., Goderis, S., Characterization of achondritic cosmic spherules from the Widerøefjellet micrometeorite collection (Sør Rondane Mountains, East Antarctica), *Geochemica et Cosmochimica Acta*, 325, 106-128, 2022, <https://doi.org/10.1016/j.gca.2022.03.029>, [IF 5.101]
201. Spros*, R. Pellegrini, M., Ervynck, A., James, H.F., Claeys, Ph., Lambert, B., Snoeck, C., Diet and mobility in early medieval coastal Belgium: Challenges of interpreting multi-isotopic data, *Journal of Archaeological Science: Reports*, #103680, 2022, <https://doi.org/10.1016/j.jasrep.2022.103680>, [IF 1.668]
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196. Chernonozhkin*, S.M., González de Vega, C., Artemieva, N., Soens, B., Belza, J., Bolea-Fernandez, E., Van Ginneken, M., Glass, B.P., Folco, L., Genge, M.J., Claeys, Ph., Vanhaecke, F., Goderis, S., Isotopic evolution of planetary crusts by hypervelocity impacts evidenced by Fe in microtektites, *Nature Communication*, 12, 5646, 2021, <https://doi.org/10.1038/s41467-021-25819-6> [IF 14.919]
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B) AUTHOR OF ARTICLES IN SCIENTIFIC MONOGRAPHS WITH INTERNATIONAL PEER-REVIEW (* INDICATES PHD STUDENT OR POSTDOC AS 1ST AUTHOR)

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H) REPORTS

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- De Bondt K. & Claeys Ph., 2010, Avenant au rapport d'étude « Capacités naturelles d'absorption de l'eau de pluie par les sols en Région de Bruxelles-Capitale »: Etude des facteurs topographiques et hydrogéologiques liés au risque d'inondation et délimitation de zones d'action pour une gestion du risque d'inondation en adéquation avec l'environnement hydrogéologique, à Forest. Bruxelles Environnement - Division Nature, Eau et Forêt, 9 p.
- De Bondt K. & Claeys Ph., 2009, Avenant au rapport d'étude « Capacités naturelles d'absorption de l'eau de pluie par les sols en Région de Bruxelles-Capitale » : Le bassin versant du « Molenbeek Amont ». Bruxelles Environnement - Division Nature, Eau et Forêt, 29 p.
- De Bondt K. & Claeys Ph., 2008, Cartographie du potentiel d'infiltration-percolation en Région Bruxelloise. Bruxelles Environnement - Division Nature, Eau et Forêt, 45 p.

I) VULGARISATION ARTICLES AND BOOKS

- Claeys, Ph. Once Upon a Time, p. 398-404, in "AGE: From the anatomy of life to the architecture of living" ed. Marleen Wynants & Goedele Nuytens, Crosstalks, VUB Press, 2017, ISBN 978-9057 185076
- Van Ham-Meert, A., Deckers, P., Makarona, C., Claeys, P., Nys, K., XRF: toegang tot een nieuwe dimensie in de archeologische studie van metaalvondsten in "Een vergeten tijd gedetecteerd metaalvondsten uit de Vlaamse kuststreek" 600-1100 n. Chr., *Vereniging voor Oudheidkundig Bodemonderzoek*, West Vlaamse Archaeologica, 60-65, 2017, ISBN: 978-90-823694-3-4
- Stein, K. en Claeys, Ph., De dinosaurus in uw achtertuin. *Karakter, Tijdschrift van Wetenschap Academische Stichting Leuven* (51): 2-4, 2015.
- Claeys, Ph. Debaille, V., Goderis, S., Space rocks on ice, *Science Connection Antarctica*, 41, 48-53, Published by Belgian Science Policy (English version) May 2013.
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- Claeys, Ph. Debaille, V., Goderis, S., Des roches venues de l'espace sur la glace, *Science Connection* 41, 48-53, Published by Belgian Science Policy (French version) May 2013.

- Claeys, Ph. and De Bondt K., Floods reduction in Brussels, p. 233-240, in "Bridge over trouble waters", ed. Marleen Wynants, VUB Press, 2012, ISBN 978-90-7028-928-7
- De Bondt, K., and Claeys, Ph., Water retention capacity of geological units within the Brussels region: Natural impact on flooding risk in "We Can Change the Weather", ed. Marleen Wynants, VUB Press, 2010, ISBN 978-90-5487-6922
- Claeys, Ph., De K/T grens en het uitsterven van de dinosauriërs, Guidestar, the digital journal of the astro-event group, 12-2010, 78-80, 2010, (<http://www.astro-event-group.be/>).
- Goderis, S. & Claeys, Ph, Inslagen van asteroiden en commenten op Aarde, Helaal v. 55, nr. 5, 150-154, May 2010, ISSN 0772-6422 Magazine van de Vereniging voor Sterrenkunde (Journal of the association of amateur astronomers), 150 -154.
- Goderis, S. & Claeys, Ph. Successful hunt for meteorites on the South Pole, Belgium Unlimited - News from Belgium Nr 8/January-February 2010, edited by Kingdom of Belgium, Foreign Affairs, Foreign Trade and Development Cooperation p. 6-8, 2010 (also in Dutch & French versions)
- Claeys, Ph. Asteroids and comet impacts on Earth, in Benton, M. Editor, *Seventy Great Mysteries of Nature*, Thames & Hudson, UK, 2008, ISBN-13 978-0500251430
- Claeys Ph. La limite Crétacé-Tertiaire, le cratère de Chicxulub et l'extinction des dinosaures, L'Artichaut (CEPULB) 23/1, 2005
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- Souillat, C. and Claeys, Ph. Le cratère d'impact de Chicxulub: témoin d'une des plus grandes crises biologiques de la planète, *La Lettre De Dinosauria*, 15, 6-10, 2000.
- Claeys, Ph. Extinction, impact and the dinosaurs, *Prometheus*, winter 1999, electronic publication, <http://www.prometheus.demon.co.uk/02/#2021>
- EUROMIN CD-ROM, History of Mineralogy (in English, French and German), developed under EC contract within the Raphaël Program, 1999.

OUTREACH AND MEDIA

WEBSITES – PRESENTATIONS – VIDEO – TV DOCUMENTARY ETC.

- Universiteit van Vlaanderen, educational video presentation titled : Hoe zijn de dinosaurussen nu echt uitgestorven (how did dino's really died), <https://www.universiteitvanvlaanderen.be/college/hoe-zijn-dinosaurussen-nu-echt-uitgestorven/>
- Participation to BBC Documentary "The day the dinosaurs died" aired first on 16.05.2017, see <https://vimeo.com/218496418> or <https://www.pbs.org/video/day-dinosaurs-died-sytqgj/> <https://www.youtube.com/watch?v=Id-M1lerGDQ> (shown on PBS in USA, France 3 etc.)
- Launch of AMGC facebook page to promote the research carried out in the group Analytical-, Environmental-, & Geo -Chemistry, <https://www.facebook.com/amgcvub/?fref=ts> (Nov. 2016)
- Scientific contribution on evolution of Planet Earth for a joint Art & Science exhibit, in Italy, *Settimana del Pianeta Terra - Week of Planet Earth* (16/10/16 → 23/10/16), Art and Science exhibit inspired from the use of the ostrakon in the ancient Greece and characterized by a set of pottery shards, on each of which are etched two words: one that should never be used for the sake of the planet and the other whose frequent use would be beneficial for the future of our planet by *Artists Ornella Ricca and Pietro Spagnoli, painters-sculptors*, <http://www.settimanaterra.org/liniziativa>
- <http://we.vub.ac.be/en/analytical-environmental-and-geo-chemistry> Website of the VUB research group Analytical-, Environmental-, & Geochemistry.
- Nuit du Savoir/Nacht van de kennis/Night of knowledge in Brussels nr. 3 Kaaitheater video of the presentation: "How to keep your feet dry in Brussels" 2015, (in French and Dutch) <https://vimeo.com/album/3240971/video/118916240>
- <http://we.vub.ac.be/~essc/> Website of the inter-faculty and interdisciplinary Earth System Science

- <http://anneedelaterre.be> Website in French, Dutch and English developed to present the Belgian activities during the "International Year of Planet Earth (IYPE, 2007-2009)", of which I acted as president of the Belgian Committee. This website illustrates the efforts to promote Earth Sciences in Belgium
- Outreach projects promoting Earth Sciences in Flanders and financed by the Dept. of Economy, Science, and Innovation of the Flemish government (75 k€ each) titles: "*Do rocks have their own life?*" A virtual expedition and digital learning project for high schools and "*Ghent we have a problem*" a virtual trip to Mars for students in the last years of primary school (<http://www.anneedelaterre.be/nl/news.html>)
- Participation in the Space Week 2009 organized by Belgian astronaut Dirk Frimout, the Euro Space Society en BELSPO (Belgian Scientific Policy Office)
- Participation in the Earth & Space Week 2009 organized by Belgian astronaut Dirk Frimout, the Euro Space Society en BELSPO (Belgian Scientific Policy Office)
- Participation in 1 hour TV documentary by Canvas (Flemish TV channel) on research about extinction of the dinosaurs, 2003
- Very Regular participation in various outreach activities of the VUB: Crosstalks & Scientific Communication

CONFERENCES FOR BROAD PUBLIC AND SCHOOLS (ONLY 2006 – PRESENT)

- Invited speaker at *compétition belge de croissance de cristaux/belgische kristalgroeiwedstrijd* organized by the Belgian National Committee for Crystallography at the Belgian Royal Academy of Sciences, May 18, 2016. <https://www.chem.kuleuven.be/bcc/indexfr.html>
- Invited speaker at "*Wetenschappen en technologie: de toekomst, jouw toekomst! Science et technologie: le future, votre futur*" Science and technology day organized for high school students by the Comité National de Chimie/Nationaal Comité Chemie and the Solvay group on the Solvay Campus in Brussels, April 16, 2016.
- Hosting of "*De Wetenschapskaravaan – Waterbeheer in Brussel, meer dan een Vlaams probleem*" on October 13, 2015, set of conferences (in Dutch) on the topic of water in Brussels for the continuous education program of the VUB (<http://upv.vub.ac.be/aanbod/waterbeheer-brussel-meer-dan-enkel-een-vlaams-probleem>).
- CEPULB, Centre Education Permanente de l'Université Libre de Bruxelles, October 12, 2015, Brussels
- Invited speaker, *Nuit du Savoir/Nacht van de kennis/Night of knowledge* in Brussels nr. 3 Kaaitheater in Brussels, 21.11.2013, <https://vimeo.com/118916240>
- Lycée Francais, Jean Monnet, March 28, 2013, Brussels
- Speaker at "Het Groene Boek (the green boek)", Zuiderhuispers, May 6th 2012, Antwerpen, Belgium, writers, thinkers, scientists debate over sustainable future, <http://www.kaaitheater.be/productie.jsp?productie=1011>
- Speaker at CampusTalks #10, "Brussel Leefbare Stad (Brussels sustainable city)" Kulturkaffee, VUB, Campus, Brussels, (<http://crosstalks.vub.ac.be/20122011-campus-talks-10-brussel-leefbare-stad-0>), 20 Dec. 2011.
- Speaker at Technology Day "*Bridge over trouble waters*" March 25th, 2011, Royal Flemish Academy of Belgium for Sciences and Arts (KVAB), Brussels, (<http://crosstalks.vub.ac.be/workshop-1-technology-day-bridges-over-troubled-water>)
- Speaker at *PechaKucha Night* Brussels Vol. 17, March, 24th 2011, Royal Flemish Academy of Belgium for Sciences and Arts (KVAB), Brussels, (<http://pechakucha.architempo.net/>).
- Cross Talks & Flanders Smart Hub, Pecha-Kucha Session, October 27, 2010, Big Blue, Zaventem, Belgium, <http://www.flanderssmarthub.be/events/cleantech-goes-pecha-kucha>
- Café des Sciences, "Astrobiology", May 20, 2010, Ukkel, Brussels
- Brugs Universitaire Centrum, May, 20, 2010, Brugge, Belgium
- Belgian Cristal growth competition (Kristalgroeiwedstrijd/Compétition de Croissance cristalline 2010), Royal Belgian Academy of Sciences, May 12, 2010.
- Royal Academies of Sciences, speaker at award of "2010 Schools Crystal Growth Competition", May 12, 2010, Brussels
- Lycée Francais, Jean Monnet, March 26, 2010, Brussels
- Natuurpunt, January 16, 2010, Dworp, Belgium

- Cross Talks, Pecha-Kucha Session, February 9, 2010, VUB - ULB, Brussels (<http://crosstalks.vub.ac.be/campustalks-04>)
- CEPULB, Centre Education permanente de l'ULB, November 24, 2009, Brussels
- NEOS, VZW, June 18, 2009, Leuven
- Cross Talks, Pecha-Kucha Session, May 9, 2009, Claridge, Brussels
- Lycée Francais, Jean Monnet, May 18, 2009, Brussels
- Museum Koninklijk Belgisch Instituut voor Natuurwetenschappen, March 22, 2009, Brussels
- Centre de Culture Européenne, EU Berlaymont, March 13, 2009, Brussels
- CEPULB, Centre Education permanente de l'ULB, Februari 9, 2009, Brussels,
- Lycée Francais, Jean Monnet, December 8, 2008, Brussels
- Wauterbos centrum, November 21, 2008, Sint Genesius Rode
- Lycée Francais, Jean Monnet, October 21, 2008, Brussels
- Series of lectures (2 per dag) for schools in the framework of the Earth & Space Week 2008 at the Ghent University, April 10, 2008, EuroSpace Center, April 9, 2008 in Transinne; EHSAL high School, April 8, 2008, Brussels
- Museum Koninklijk Belgisch Instituut voor Natuurwetenschappen, Februari 24 (French) and March 2 (Dutch) 2008
- Extension de l'Université Libre de Bruxelles, February 18, 2008, Dour
- Academie voor Mineralogie VZW, September 7, 2007, Merksem
- URANIA Volssterrenwacht/Observatory, series of 4 talks on, Janury 16 and 23; February 7, and March 20, 2007, Hove
- CEPULB, Centre Education Permanente de l'ULB, February 2, 2006, Brussels

RESEARCH COMMUNICATION IN THE MEDIA (2001-PRESENT)

(links op <https://researchportal.vub.be/en/persons/philippe-claeys/clippings/>)

- 31.10.2023: Worldwide media attention (Washington Post, NY Times, CNN, BBC, Newsweek...) related to our paper on Chicxulub impact winter sustained by silicate dust in *Nature Geoscience* (see [altmetric](#)).
- 29.07.2023: Refutation of Younger Dryas Impact Hypothesis paper in *Earth Science Review* ranked in the top of OOIR trend in Geosciences,
- 02.02. 2023, International TV-Radio-Written press (CNN, BBC, Skynews, etc) of our article about Vikings journeying to England with horses and dogs onboard in [PLOS One](#);
- 15.06.2021: "EOS" [article about the new ages for the Chicxulub granite](#);
- 26.02.2021, Global news coverage of our Science Advances paper "Globally distributed iridium layer preserved within the Chicxulub impact structure" see VRT.be, RTBF, De Standaard, HLN, Forbes, Physics World, Science & Avenir, Yahoo News, Süddeutsche Zeitung, Sky TG24 etc.;
- 15.06.2021, EOS article about the new ages presented on the Chicxulub granite (published in Ross et al., 2021). <https://eos.org/articles/vestiges-of-a-volcanic-arc-hidden-within-chicxulub-crater>
- 26.02.2021, Global news coverage of our Science Advances paper "Globally distributed iridium layer preserved within the Chicxulub impact structure" on the settling of iridium within the Chicxulub impact structure: vrt.be, RTBF, De Standaard, HLN, Forbes, Physics World, Science & Avenir, Yahoo News, Süddeutsche Zeitung, Sky TG24 etc.
- 16.01.2020, BELGIAN PRESS COVERAGE of our recent paper in *Climate of the Past*, comparing seasonality during the 16th-17th century and modern days (1960-2010) based on a stalagmite from Han sur Less in Belgium, RTBF news, L'avenir, Daily Science, Le Vif, etc.
- 01.01.2020, SCIENCE list our research on the Chicxulub crater and dinosaur mass extinction as among the top runners up for *Science Breakthrough of the year 2019*, <http://science.sciencemag.org/content/366/6472/1436>
- 01.11.2019 KNACK OPINIE: Dinosauriërs waren de bekendste slachtoffers van de meest recente massaextinctie', 2 pages article in Knack, Flemish news magazine covering release of video: by "Universiteit van Vlaanderen": Hoe zijn de dinosaurussen nu echt uitgestorven (how did dino's really died).

- 24.10.2019 BELGIAN PRESS COVERAGE OF THE SUBLIMUS project funded by INNOVIRIS to recover gold, silver and platinum from solid waste produced by Brussels water treatment plants, articles published by La Dernière Heure, VRT News, and Daily Sciences, and TV reportage by Brussels TV
- 20.09.2019 METRO, FREE DISTRIBUTION JOURNAL IN BRUSSELS, covered our new SUBLIMUS project funded by INNOVIRIS to recover gold, silver and platinum from solid waste produced by Brussels water treatment plants.
- 18.09.2019 WORLDWIDE PRESS, COVERAGE OF OUR ARTICLE IN SCIENCE ADVANCES, *An extraterrestrial trigger for the mid-Ordovician ice age: Dus from the break-up of the L-chondrite parent body*, proposing that huge ET dust cooled the Earth and induced major faunal changes some 466 million years ago, Science wrote an editorial about it, summary of the work appeared in New-York Times, CNN, De Standaard, De Morgen, Het Laatste Nieuws, VRT-news, The Independent, The Guardian, Fox-News, Science et avenir, Radio Canada etc.
- 09.09.2019 WORLDWIDE PRESS, COVERAGE OF OUR ARTICLE IN PNAS, *The first day of the Cenozoic*, on the mechanisms that led to the demise of the dinosaurs after the Chicxulub impact published in RTBF news, National Geographic, The Smithsonian, Wall Street Journal, El País, Il Post, New York Times etc.
- 03.08.2018 WORLDWIDE PRESS, COVERAGE OF OUR ARTICLE IN SCIENTIFIC REPORTS, *Strontium isotope analysis on cremated human remains from Stonehenge support links with West Wales*, on the origin of the people buried at Stonehenge published in BBC News, CNN, De Morgen, De Standaard, El País, Science News, The Guardian, Washington Post...
- 26.06.2018, NEWS COVER OF THE ARRIVAL MARTIAN METEORITE IN BRUSSELS, recovered during our Antarctic expedition, it will be studied jointly at VUB and ULB, La Capitale, RTBF News, RTL, Het Nieuwsblad, Metro, etc.
- 31.05.2018, NEWS COVER OF OUR NATURE PAPER, *Rapid recovery of life at ground zero of the end Cretaceous mass extinction*, showing how quickly life returned into the Chicxulub crater in Yucatán, 7Sur7.be, VRT News, Het Laatste Nieuws, La Dernière Heure, RTL Info, Science & Avenir, Science News, Discovery Magazine, etc.
- 03.01.2018, NEWSPAPER ARTICLES ON NATURE COMMUNICATIONS PAPER, Belgian and German media reported on our articles "*Timing and pacing of the Late Devonian mass extinction event regulated by eccentricity and obliquity*", Le Vif; De Morgen, Het Nieuwsblad, Het Laatste Nieuws, etc.
- 07.12.2017, NEWSPAPER ARTICLES ENVIRONMENTAL GEOCHEMISTRY, Flemish journals such as Het Nieuwsblad, De Standaard, VTM news etc. Reported on joint work with the University of British Columbia on metal isotope measurements in honey to trace pollution in Vancouver and Brussels, (see <http://www.nieuwsblad.be/cnt/dmf2017120503225724>; <http://www.standaard.be/cnt/dmf2017120503226403> <https://nieuws.vtm.be/binnenland/bijen-moeten-luchtvervuiling-opsporen>)
- 02.06.2017, PETER WALL IN FOR ADVANCED STUDIES NEWSLETTER, Article "The impact of impacts", by David Morrison on ongoing research based on recent drilling of the Chicxulub crater in Yucatan (<http://www.pwias.ubc.ca/wall-papers/the-impact-impacts>)
- 23.05.2017, MAY EDITION OF EOS WETENSCHAP (Dutch/Flemish popular science magazine), article "*In een uur was de wereld compleet veranderd*" based interview related to research on the Cretaceous-Paleogene mass extinction
- 15.05.2017, BBC news article "Dinosaur asteroid hit 'worst possible place'" promotion of BBC documentary "the day the dinosaurs died", <http://www.bbc.com/news/science-environment-39922998>
- 13-15.12.2016, DE MORGEN, BBC NEWS, WASHINGTON POST ETC., reported on the press conference given during the American Geophysical Union meeting in San Francisco on the recent results on the IODP-ICDP Chicxulub drilling offshore Yucatan (ex. <http://www.bbc.com/news/science-environment-38299804>).
- 18.11.2016, NEW YORK TIMES, BBC NEWS, TAGESSPIEGEL, and many newspapers worldwide reported on our Science paper (published on Nov. 17, 2016) regarding the formation of the complex peak-ring Chicxulub crater in Yucatan, as analog for similar structures on other planets.
- 15.06.2016, ARTICLE IN THE BRUSSELS JOURNAL "BRUZZ" related to the research carried out by AMGC on flooding management in Brussels.
- 07.03.2016, INTERVIEW FOR THE VRT (FLANDERS MAIN RADIO STATION) MORNING SHOW, on the IODP-ICDP drilling of the Chicxulub crater offshore Yucatan and its effect on the biosphere and dinosaur extinction. <https://www.dropbox.com/s/aw1g7h0xjrn4xop/ClaeysStudiogesprek.wav?dl=0>
- 18.10.2015, HET BELANG VAN LIMBURG, comments on dating the migration of Homo sapiens out of Africa.
- 04.10.2015, INTERVIEW FOR THE NEWS (AT 1PM – 7 PM) of the RTBF "*Le Journal*", Belgian French Television, regarding the mechanisms leading to the extinction of the dinosaurs.

- 06-07-2015, ARTICLE IN JOURNAL "LE SOIR" RELATED TO OUR RECENT PUBLICATION about how incoherence in cartographic data between Brussels, Flanders and Wallonia complicates water management in Brussels. It is based on an article published in the journal "*Brussels Studies*".
- March 1st 2013, DE STANDAARD, L'AVENIR, HUFFTINGTON POST, LE VIF, DAILY MAIL, NEW ZEALAND HERALD, GLOBAL POST, AND MANY MORE WORLDWIDE, covered our recent discovery in the blue ice field of Antarctica of a 18 kg meteorite, one of the largest ever, VRT News Film.
- January 24th 2013, DE TIJD, LE SOIR, GAZET VAN ANTWERPEN, KNACK, LE FIGARO, BBC NEWS, SCIENCE DAILY and many others reported on our recent paper in Nature Communication relating the discovery of a new bird-like theropod dinosaur from the Jurassic of China.
- LE SOIR, RTL, RTBF, ENGINEERINGNET.BE, BULLETINS ELECTRONIC-FRANCE, ETC, news coverage of the VUB-ULB Antarctic mission (2012-2013) to search for meteorites in the Nansen Icefield in collaboration with the National Institute of Polar Research in Japan, and supported by BELSPO and International Polar Foundation.
- May 12, 2012, HET LAATSTE NIEUWS, EDITIEPAJOT, GAZET VAN ANTWERPEN, DE MORGEN, LE SOIR, HET BELANG VAN LIMBURG, BRUSSELNIEUWS.BE, VANDAAG.BE AND VRT, reported on the first arrival of meteorites from the Antarctic.
- LE SOIR, DE STANDAARD, DE MORGEN, HET LAATSTE NIEUWS, LA LIBRE BELGIQUE, EOS MAGAZINE ETC., Interview on TV VRT-1, for the 7 PM news report, February 2011, covered the 2010-2011 VUB - ULB Antarctic mission to search for meteorites in the region surrounding the Belgian base Princess Elisabeth with the support of BELSPO and International Polar Foundation. Click here to watch/download Movie of the Expedition.
- November 24, 2010, co-SIGNEE OF AN OPEN LETTER BY 24 top Belgian scientists to maintain the funding of the Federal Belgian Science Policy Offices, published in French in Le Soir (*Faut il démanteler la recherche fédérale?*) and in Dutch in De Standaard (*Wetenschap heeft geen boodschap aan taalgrens*, <http://www.standaard.be/artikel/detail.aspx?artikelid=3R32JR6B>)
- November 2010, ARTICLE IN LITHORAMA, Monthly News Bulletin of the Belgian Association of Amateur Paleontologists and Mineralogists, "*Successful hunt for meteorites at the South Pole*", <http://lithomin.blog4ever.com>
- 31.05.2010, GUEST IN SHOW "*visite*" produced by AVS television East Flanders, interview/discussion with show host over Earth System Sciences
- 23.04.2010, HET NIEUWSBLAD: "*Verzamel zelf vulkaanas in emmer en help de wetenschap*", article related to our call to the public to collect volcanic ashes from the Eyjafjallajökull eruption
- 01.04.2010, RTBF LE JOURNAL: "*Météorites de l'Antarctique*", short film and interview regarding meteorite collection in Antarctica for the news of the Belgian French Speaking TV
- 26.03.2010, LE SOIR: "*L'Antarctica InBev-Baillet Latour pour l'ULB & la VUB*", related to the award of the InBev-Baillet Latour Antarctica prize to Steven Goderis at the VUB
- 24.03.2010, LA LIBRE BELGIQUE: "*Météorites en Antarctique*", related to the award of the InBev-Baillet Latour Antarctica prize to Steven Goderis at the VUB
- 07.03.2010, GAZET VAN ANTWERPEN: Nieuws in Beeld "Het was een komeet", full page article over recent publication in Science
- 06.03.2010, HET NIEUWSBLAD: "*Belgische profs bewijzen: meteorite doodde dino's*", article over recent publication in Science
- 05.03.2010, DE STANDAARD: "*Dream team is formeel: Meteor doodde dino's*"; DE MORGEN, HET LAATSTE NIEUWS "*Dino's stierven wel degelijk uit door meteorietinslag*", GAZET VAN ANTWERPEN; Het Nieuwsblad: "*Geen twijfel meer mogelijk, dino's zijn uitgestorven door meteoriet*", KNACK: "*Meteoriet roeide dino's uit*" + TV en radio interviews, ivm recent publication in "Science".
- 05.02.2010, HET NIEUWSBLAD: "*Vlaamse onderzoekers staan internationaal aan de top*".
- 22.01.2010, SCIENCE NEWSFOCUS v. 327, p. 409: "*Still no mammoth-killer*" by Dick Kerr related to research presented at the 2009 AGU Fall Meeting, in San Francisco.
- 19.01.2010, VRT, RADIO 1, DE OCHTEND: interview related to meteorite search in Antarctica.
- 12.2009, NEWSGUIDE.US & SCIENCEDAILY: "*Absence of evidence for a meteorite impact event 13,000 years ago*" ivm Paquay et al. publicatie in Proceedings of the National Academy of Science US.
- 11.2009, KENNISLINK.NL: "*Toch geen meteorietinslag*" ivm Surovell et al. related to recent publication in the Proceedings of the National Academy of Science US.
- 19.10.2009, DE STANDAARD, DE MORGEN, HET LAATSTE NIEUWS: "*Mammoet stierf niet uit door buitenaardse inslag*", related to recent publication in the Proceedings of the National Academy of Science US.

- 05.01 2009, LE MONDE: "*Une crise écologique tombée du ciel il y a 12900 ans?*".
- 21.12.2008, LE MONDE: "*La double malédiction des dinosaurs*".
- 17.09 2008, KNACK: "*Het Leven is een groot toeval*", 6 pages interview by science journalist Dirk Draulans for a series of articles "*Vlaamse topwetenschappers*" on top Flemish researchers
- 21.06.2008, LE MONDE: "*La thèse de la météorite tueuse de Mammouths suscite de vifs débats*".
- 29.04.2008, KNACK: "*Geologie: Diamant in onze grond*"
- 07.03.2008, SCIENCE NEWSFOCUS v. 319, p. 1331: "*Experts find no evidence for a Mammoth-Killer impact*" by Dick Kerr
- 23.01.2008, KNACK: "*Geologie: Nieuwe Leven*"
- 31.10.2007, KNACK: "*Kosmologie: Biljard wordt bombardement*"
- 28.10.2007, TV, RTBF, LE JARDIN EXTRAORDINAIRE: interview with Claudine Bresseur about the extinction of the dinosaurs during the opening of the new exhibit in the Museum van het Koninklijk Belgisch Instituut voor Natuurwetenschappen.
- 27.10.2007, DE STANDAARD: "*Meer dan sneeuw en ijs*" related to project to search for meteorites in Antarctica.
- 04.09.2007, Le Soir: "*Station belge dans l'Antarctique: 'émission zero pour un gain maximal?'*"
- 02.09.2007, DE STANDAARD: "*Meer geld voor Zuidpool*"
- 09.2007, SAN FRANCISCO CHRONICLE, BBC NEWS, CHINA DAILY, TIMES, NPR, EL PERIODICO, GEOTIMES, TELEGRAPH, SCIENTIFIC AMERICAN ETC. Series of articles related to Claeys & Goderis publication in Nature (06.09.2007).
- 29.01.2007, Radio's & TV interviews, REGIONIEUWS, VTM, RTBF, discovery of the *Mont Dieu Meteoriet* and exhibition in the Koninklijk Belgisch Instituut voor Natuurwetenschappen
- 23.03.2006, RICHMOND TIMES-DISPATCH: "*Scientists peruse unearthed cores from ancient Chesapeake Bay crater*".
- December 2005, Natuurwetenschap & Techniek, article "*Hoogteziekte in Pangea, gebrek aan zuurstof droeg bij aan massale uitsterving*"
- 20-5-2005, VOOR DE DAG ON RADIO 1, 20 May 2005: VRT journalist Ben Vanheukelom interviews Philippe Claeys
- 8-9-2004, KNACK, Article "*Twee Asteroiden*" by journalist Dirk Draulans
- 31-7-2004, MSNBC NEWS on the web article "*Asteroids may have created ancient craters*"
- July 2004, NEW SCIENTIST, v. 183, no 2458, p. 8, 31 July 2004, article "*Dual asteroid stirke hits comet theory*"
- 29-7-2004, ASTRONOMY MAGAZINE (online edition) article "*Those weren't Snowballs*"
- 27-7-2004, CHEMICAL AND ENGINEERING NEWS, Article "*Asteroids, not comets in Eocene*"
- 26-7-2004, THE SUN, (Baltimore), Article p. 9A "*Hits from Heaven*"
- May 2004, NEW SCIENTIST, Article "*Four days that shook the world*" by Kate Ravillious, interview over the recently proposed Mega-volcanism theory of VERNESHOT
- May 2004, SCIENCE & VIE, article "*dinosaures: vive polémique autour de leur extinction*"
- May 2004, SPACE.COM, article "*Double Whammy: asteroids delivered one-two punch*"
- 31-5-2004, DALLAS MORNING NEWS, Article by Journalist Alex Witze, "*new evidence for big die-off*"
- 6-4-2004, TV PROGRAM "*C'est la vie*" on the RTBF, 6 April 2004, interview related to flooding risks in Uccle (Brussels), related to large construction project close to a Natura 2000 nature reservation
- 30-11-2003, TV PROGRAM Overleven, Canvas VRT: "*Moordenaar uit de ruimte*", 45 minutes documentary on the end of the dinosaurs, filmed in Spain, Italy and Mexico for the Flemish Television.
- 25-4-2003, INGENIØREN (Danish science and technology journal): Article "*Meteoritten der forandrede verden*" based on interview by Danish science journalist Rolf Nielsen.
- 7-4-2003, ARD RADIO, (Germany): Interview during the EGS-AGU-EUG meeting to comment the latest results of the ICDP drilling of Chicxulub presented at the meeting
- September 2002, CIEL & ESPACE (French popular Space sciences journal): Article "*Les preuves au fond du cratère*" based on interview by journalist Charles Frankel.

- 21-11-2002, ARD RADIO (Berlin): Participation to a debate on mass extinctions and evolution of life.
- August 2002, DEUTSCHE WELLE (German international radio): Interview by journalist Sabine Goldhahn to comment on the latest scientific developments presented in the session "*Impact hazards from comets and asteroids*" at the Goldschmidt Conference in Davos.
- 22-7- 2002, RADIO 1, VRT: Interview to explain the tectonic context of the Eschweiler earthquake that was felt all over Belgium that morning.
- 5-6-2002, KNACK magazin : Article "*diepte krater*". (Mentionned in VUB activiteitverslag 2002, as example of the presence of the VUB in the media)
- 21-5-2002, FM BRUSSEL: Interview on dinosaurs' extinction.
- 16-5-2002, BRUSSEL DEZE WEEK: Article "*VUB-prof. onderzoekt de moord op de dino's*".
- 15-5-2002, JONGENS & WETENSCHAP, radio 1, VRT: interview on what caused the dino's extinction.
- 12-5-2002, VOOR DE DAG, Radio 1, VRT: Interview by journalist Ben Vanheukelom.
- 4-5-2002, NEW SCIENTIST, (4 May 2002, no 23412): Article, "*Last days of the Dinosaurs*", based on interview by journalist Kate Ravillious.
- 16-10-2001: COMO VES (Mexican popular science journal), article "*El crater de la muerte*".
- 14-7-2001: FINANCIËEL-ECONOMISCHE TIJD: Full-page article "*De krater van het laatste oordeel*" based on interview by journalist Tom Dieusaert.