

CURRICULUM VITAE

DR. FAUSTO FERRACCIOLI

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CURRENT & PAST LEADERSHIP ROLES

Director of Geophysics at the Istituto Nazionale di Oceanografia e Geofisica Sperimentale since November 2020. Director responsible for managing, leading and promoting an interdisciplinary geosciences section with 77 staff. The section performs geophysical and geological research and services, mainly focussed on the Mediterranean and polar regions, in both marine and onshore realms, and manages and deploys major national and European research infrastructures.

Science Leader of Geology and Geophysics at the British Antarctic Survey, Natural Environment Research Council (UKRI) 2015-2020. Senior manager who led, managed and promoted BAS Geological and Geophysical Research and Member of BAS Science Strategy Team.

Aerogeophysics Group Leader at the British Antarctic Survey, Natural Environment Research Council (UKRI) 2002-2020; Manager of an aerogeophysics research platform including radar, aeromagnetic, aerogravity and laser systems and responsible for major geophysical exploration projects. His role builds on 25 years of experience in international and interdisciplinary geophysical research, with particular emphasis on magnetic and gravity research applied to tectonics, crust and lithosphere studies and determining basal boundary conditions for Antarctic ice sheets.

PROJECT AND TEAM LEADERSHIP

<i>2015-2020: Science Leader for the British Antarctic Survey</i>	Led and Managed Geology and Geophysics research & team. Budget ~£2,000,000 (over 5 yrs & including staff costs).
<i>2019-present: Leads Lithosphere & Science Requirement WPs of ESA project 4D Antarctica</i>	UK Lead in ESA project WPs <i>investigating lithospheric influences on Antarctic geothermal heat flux-</i> as part of an interdisciplinary effort with researchers from 12 European institutions studying subglacial & supraglacial hydrology with the aid of geophysics and ice sheet modelling. Budget €1,000,000.
<i>2018-present: Leads Aeromagnetic & Supercontinent WPs of ESA project 3D Earth</i>	UK Lead in ESA project aimed at <i>combining potential field (including satellite & airborne data), seismological, deep electrical conductivity and petrological datasets and plate reconstructions to derive novel 3D Earth models-</i> as part of an interdisciplinary effort with researchers from 9 institutions. Budget €1,550,000.
<i>2015-2019: Project Leader for European Space Agency Project PolarGAP</i>	ESA Project Leader for international team from UK, Denmark & Norway. The geophysical project obtained the first key <i>coverage of the South Pole data void for the Gravity field and Ocean Circulation Explorer (GOCE) satellite mission of ESA.</i> Budget €950,000.
<i>2016-2018: Co-Investigator for European Space Agency project GOCE+Antarctica</i>	UK Lead responsible for <i>interpretation of the crust using GOCE satellite gravity gradient data.</i> International project team from Germany, Denmark, Netherlands and UK. Budget €300,000.
<i>2013-2018: Co-Investigator for international project ICEGRAV</i>	UK Lead responsible for <i>aerogeophysical research and geological interpretation</i> of the Recovery Frontier, East Antarctica. International team from Denmark, UK, US, Norway and Argentina. Budget ca 2,000,000 USD (BAS budget £155,000).

<p>2013-2014: <i>Project Manager for Department for Business, Innovation & Skills project TELLUS</i></p>	<p>Project Manager for <i>airborne LIDAR environmental project</i>. Interdisciplinary collaboration between the British Geological Survey, BAS, Centre for Ecology and Hydrology, Environmental Agency, Plymouth Marine Laboratory and Fugro & Helica. Budget ~£2,000,000 (BAS budget £400,000).</p>
<p>2010-2014: <i>Co-Investigator for Natural Environment Research Council Antarctic Funding Initiative project Institute & Möller</i></p>	<p>BAS Lead Investigator responsible for <i>airborne geophysical research over the Institute & Möller ice streams</i>, in West Antarctica. The project was led by the Univ. of Edinburgh, in collaboration with BAS, Univ. of Bristol, Univ. of Aberdeen, Univ. of Exeter, Newcastle Univ. and the Univ. of York. Budget £1,104,622.</p>
<p>2008-2013: <i>UK Principal Investigator for International Polar Year project- AGAP</i></p>	<p>UK PI responsible for <i>aerogeophysical exploration and research of the Gamburtsev Subglacial Mountains</i>. AGAP was a <i>flagship project of the International Polar Year</i> that involved collaboration between the US, UK, Germany, Australia, China, Japan and Canada. BAS budget £100,000 (excluding staff costs).</p>
<p>2005-2009: <i>Co-Investigator for BAS Project-ISODYN</i></p>	<p>PI for <i>joint UK/Italian aerogeophysical research over the Wilkes Subglacial Basin</i>. The project combined geological and geophysical research with paleoclimate and ice sheet modelling to investigate East Antarctic Ice Sheet stability. Budget £2,600,000.</p>
<p>1995-present: <i>Involved (often with leading roles) in 48 Research Projects</i></p>	<p>Member of <i>48 research projects in geophysics applied to geology, tectonics, geodynamics, glaciology, geomorphology, paleoclimate, paleo-ice sheets & geodesy- mainly in the polar regions</i>, including participation as lead scientist in 5 Antarctic field campaigns; <i>18 projects funded by Programma Nazionale delle Ricerche in Antartide (PNRA)</i>. Currently, UK lead on THERT (PNRA-funded) led by OGS that aims to study the structure of the Ross Sea and Transantarctic Mountains from gravity, magnetic and seismic data.</p>

INTERNATIONAL APPOINTMENTS

- 2020. UK Potential Field representative for new SCAR Science Research Programme “*INSTANT*” *INStabilities & Thresholds in ANTArctica* (led by Tim Naish, NZ & Florence Colleoni, OGS, Italy).
- 2016-present. UK National Representative Geosciences (SCAR).
- 2013-present. Co-Leader of International Steering Committee of *Antarctic Digital Magnetic Anomaly Project*- Scientific Committee on Antarctic Research (SCAR)/IAGA Expert Group.
- 2013-present. Co-Leader of SCAR *Connecting Geology and Geophysics* group.
- 2007-present. Co-Leader for IAG/SCAR *Antarctic Gravity and Geoid* project.

PRIZES, HONOURS & ITALIAN PROFESSOR HABILITATION

- 2014 Italian Ministry of Education, Universities and Research (MIUR) award for outstanding Italian researcher abroad “*Assunzione per chiamata diretta di ricercatori o tecnologi, italiani o stranieri, che siano distinti per meriti eccezionale ovvero che siano stati insigniti di alti riconoscimenti scientifici in ambito internazionale*” and related OGS job offer (Role: *Dirigente di Ricerca V fascia*).
- 2014 (28th Nov) Habilitation Full Professor in Geophysics (*Prof. Ordinario- 04/A4- Geofisica*).
- 2010 Awarded the UK Polar Medal for outstanding dedication and achievements in polar science.

EDUCATION

- 1997-2000: Ph.D. in Geophysics. University of Genoa (Italy), Geophysics Department. PhD thesis: *New geophysical constraints on crustal architecture, inheritance and evolution of the Transantarctic Mountains-West Antarctic Rift tectonodynamic system*.
- 1990-1995: University of Genoa (Italy), B.Sc in Geology (110/110). Graduate thesis: *Crustal structure over Victoria Land, East Antarctica, from aeromagnetic surveys*.

- 1994 4th year research project & short thesis at Caltech, California: *Reservoir-induced seismicity at Hoover Dam (Colorado River)*.

PROFESSIONAL BODIES

- Member European Geosciences Union
- Member American Geophysical Union
- Member International Union of Geodesy and Geophysics
- Member International Association of Geomagnetism and Aeronomy

PUBLICATIONS AND TOP TEN PAPERS

140 publications, including 2 in *Nature*, 1 in *Science*, 3 in *Nature Geoscience*, 3 in *Nature Scientific Reports*.

4982 citations, H-index of 34 & I-10-index of 79 (Source- Google Scholar- 09 April 2021).

- Bell, R.E., **Ferraccioli, F.**, and 10 others, 2011. Widespread persistent thickening of the East Antarctic Ice Sheet by freezing from the base. *Science* 331 (6024), 1592-1595.
- Bingham, R.G., **Ferraccioli, F.**, and 5 others. 2012. Inland thinning of West Antarctic Ice Sheet steered along subglacial rifts. *Nature*, 487, 468-471.
- **Ferraccioli, F.**, Armadillo, E., Jordan, T.A., Bozzo, E., Corr, H., 2009. Aeromagnetic exploration over the East Antarctic Ice Sheet: a new view of the Wilkes Subglacial Basin, *Tectonophys.*, 478, 62–77.
- **Ferraccioli, F.**, Finn, C. A., Jordan, T.A., Bell, R.E., Anderson, L.M., Damaske, D., 2011. East Antarctic rifting triggers uplift of the Gamburtsev Mountains. *Nature*, 479, 388-392.
- **Ferraccioli, F.**, Jones, P.C., Vaughan, A. P. M., Leat, P. T., 2006. New aerogeophysical view of the Antarctic Peninsula: More pieces, less puzzle. *Geophysical Research Letters*, 33, L05310.
- Fretwell, P., and 59 others including **F. Ferraccioli**, 2013. Bedmap2: improved ice bed, surface and thickness datasets for Antarctica. *The Cryosphere* 7: 375-393.
- Le Brocq, A.M., Ross, N., Griggs, J.A., Bingham, R.G., Corr, H.F.J., **Ferraccioli, F.**, Jenkins, A., Jordan, T.A., Payne, A.J., Rippin D.M., Siegert, M., 2013. Evidence from ice shelves for channelized meltwater flow beneath the Antarctic Ice Sheet. *Nature Geoscience*, 6, 945-948.
- Morlighem M. and 36 others including **F. Ferraccioli**, 2020. Deep glacial troughs and stabilising ridges unveiled beneath the margins of the Antarctic ice sheet. *Nature Geoscience*, 13, 132-137.
- Ross, N., Bingham, R.G., Corr, H.F.J., **Ferraccioli, F.**, Jordan, T.A., Le Brocq, A., Rippin, D.M., Young, D., Blankenship, D.D. & Siegert, M.J., 2012. Steep reverse bed slope at the grounding line of the Weddell Sea sector in West Antarctica. *Nature Geoscience*, 5, 393-396.
- Vaughan, D.G., Corr, H.F. J., **Ferraccioli, F.**, Frearson, N., O'Hare, A., Mach, D., Holt, J. W., Blankenship, D.D., Morse, D., Young, D.A., 2006. New boundary conditions for the West Antarctic ice sheet: Subglacial topography beneath Pine Island Glacier, *Geophys Res. Lett.*, 33, L09501, doi:10.1029/2005GL025588.

MAIN RESEARCH INTERESTS

- Crust & Lithosphere Architecture and Tectonics (with particular focus on the polar regions)
- Continental rifting, strike-slip faulting, basin formation, mountain building, erosion & flexure
- Subduction, terrane accretion & crustal growth (including linkages with supercontinent cycles)
- Geological and topographic boundary conditions and past, present & future ice sheet dynamics
- Subglacial geology, topography, hydrology and subglacial environments
- Potential Field and Aerogeophysical Methods (magnetic, gravity, radar, laser & LiDAR methods)
- Magnetic and Gravity data Analyses & Interpretation, including Forward and Inverse Modelling

INTERNATIONAL CONFERENCE SESSIONS/WORKSHOPS & SELECTED INVITED TALKS

- Lead Convenor for Antarctic and Arctic lithosphere session at AGU 2020
- Co-Convenor for Antarctic lithosphere session at ISAES 2019, Korea.
- Lead Convenor for session on Antarctic geophysics at EGU 2018.
- Lead Convenor for session on Arctic and Antarctic geophysics at AGU 2017.
- Lead Convenor for session on Antarctic and Arctic geophysics at EGU 2017.

- Co-Convenor for session “Arctic and Antarctic Geoscience” at IGC 2016, Cape Town.
- Lead Convenor for “Subglacial geology and significant events in the geological evolution...” & Convenor for 2 Workshops “Linking Geology and Geophysics” & “ADMAP-2” at SCAR 2016, Malaysia.
- Lead Convenor for session “The structure and evolution of the Antarctic continent in light of recent geophysical and geological investigations” & Organiser “ADMAP-2” Workshop at ISAES 2015, India.
- Co-Organiser EAGE/DGG 2015 Workshop “Airborne Geophysics: New Technologies in Hardware and Interpretation”.
- Co-Convenor for “Linking Geology and Geophysics” & Lead Convenor ADMAP-2 Workshop at SCAR 2014.
- Lead Convenor for session “Antarctic Geodynamics” & Lead Convenor ADMAP-2 Splinter Meeting at EGU 2014.
- Lead Convenor for session “Geodynamics of the Polar regions” & Co-Convenor for “Linking Geology and Geophysics” Splinter Meeting at EGU 2013.
- Lead Convenor for “Earth Structure and Geodynamics at the poles”, IPY 2012, Montreal.
- Lead Convenor for “East Antarctic Geophysics and Geology” workshop & related session at ISAES 2011.
- Co-Convenor on lithosphere and geothermal heat flow session at EGU 2011.
- Lead Organiser for RCUK-China Workshop “New frontiers in Antarctic geology and geophysics”, Beijing, October 2010.
- Co-Convenor session on “Magnetic & Lithosphere studies” at SCAR Meeting, Buenos Aires, August 2010.
- Lead Organiser RCUK-China Geology & Geophysics Workshop, Cambridge, March 2009.
- Lead Organiser UK-Italian Workshop on Geophysics & Geology in East Antarctica, October 2008.
- Lead Convenor for Geology, Geophysics & Ice Sheet modelling session at AGU Fall Meeting 2007.

Contributed to ca 450 international conference presentations since 1994.

Selected Invited Presentations:

- Invited Talks at SCAR 2020 and EGU 2020 (both virtual).
- Plenary Talk at ISAES 2019, Korea; Invited Talk ESA Science Meeting 2019, Dublin.
- Invited Talk at SCAR 2018, Davos.
- Invited Talks at EGU 2017; HALO Workshop 2017; RAID Drilling Workshop, California 2017.
- Invited Talks at NIPR 2016 (Japan); IGC 2016 (South Africa); SCAR 2016 (Malaysia); Chinese Drilling Workshop 2016.
- Invited Talks at AGU, 2015; IUGG 2015; EAGE 2015.
- Invited Talks at AGU 2014; SCAR 2014.
- Invited Talks at EGU 2013, AGU 2013
- Invited Talks at EGU 2012; IPY 2012 Meeting, Canada; IGC 2012 Australia;
- Invited Talks at ISAES 2011, Edinburgh, UK; IUGG 2011, Melbourne, Australia;
- Invited Talks at RCUK 2010 China; SCAR Meeting 2010, Argentina; IPY meeting 2010 Norway.

Selected Invited Seminars:

Saskatoon University, Canada (December 2018); Newcastle University (October 2018); Scott Polar Research Institute (September 2018); University of Kiel (March 2017);
National Institute of Polar Research, Japan (November, 2016); Jilin University, China (June 2016); Geological Society London (Jan., 2016);
University of Plymouth (November 2014); Norwegian Polar Institute (October 2014); University of Texas (Institute of Geophysics, September 2014); University of Granada, (April 2014), University of Oxford, (April 2014) University of Leicester, March (2013); British Geological Survey (2013);
British Geological Survey 2012; University of Cambridge (2012); Scott Polar Research Institute (2012); Imperial College, London (2012);
University of Edinburgh (Geography), 2011; University of Oxford (Earth Sciences) May 2010; University of Royal Holloway (Earth Sciences) March 2010.

REVIEWER/GUEST EDITOR FOR JOURNALS & PROJECT PROPOSALS

- Reviewer for *Tectonophysics*; *Tectonics*; *Lithosphere*; *Terra Nova*; *JGR*; *GRL*; *Geophys. J. Int.*, *G-cubed*; *Geology*; *EPSL*; *Surveys in Geophysics*; *Nature Geoscience*; *Nature*; *Nature- Scientific Reports*; *Science- Science Advances*
- Guest Editor for 2 special Issues in *Tectonophysics* and 1 Special Polar Focus in *G-cubed*.
- Awarded “Best Reviewer of the Year” from *Tectonophysics*, Elsevier in 2008.
- Reviewer of International Research Proposals for the *National Science Foundation*, *NASA*, *Programma Nazionale delle Ricerche in Antartide*, *Australian Antarctic Division*, *NZ Antarctic Research Institute*. *German Research Foundation*, *Netherlands Organisation for Scientific*

Research, Scientific Committee on Antarctic Research (Fellowship proposals); Academy of Finland; Swiss Science Council (Includes Research Centre proposal Evaluation)

EDUCATIONAL ACTIVITIES

- Advisor for 6 PhD in Geophysics, 5 M.Sc. in Geophysics, 6 Graduate theses, 3 4th Year Undergraduate Projects. Supervisor Marie Curie Fellow & Australian Research Fellow.
- Teaching for Master in Applied and Pure Geophysics, La Spezia.
- 12 Seminars for Exploration Geophysics and Environmental Geophysics, Univ. of Genoa.

RELEVANT TRAINING & EXPERIENCE

- Mindful Management
- Senior Management
- Project Management
- Managing Organisational Change
- Team and Student Supervision
- Equality, Diversity and Unconscious Bias
- Advanced Software Training, including 2D and 3D potential field modelling
- BAS Geological Sciences Divisional Management Group (2002-2005)
- BAS Science Strategy Team (2015-present)

OUTREACH & PRESS

- Invited talks for Societies (e.g. *Geological Society Yorkshire* in 2013); Senior Citizen groups *University of the Third Age* (Cambridge 2012); Clubs, e.g. *Cambridge Geology Club* (2012), Museums (e.g. *Genoa Arts and Science Foundation* in 2010); High Schools (e.g. *Cambridge Sixth Form* and *York High School UK* in 2009).
- Over **300 news items** worldwide in November-December 2018 following the GOCE+Antarctica paper published by Ebbing et al., including Ferraccioli in the *Nature* journal *Scientific Reports*.
- **197 news items** worldwide following the publication of Bingham, Ferraccioli et al *Nature* paper on the West Antarctic Rift System and its influence on the West Antarctic Ice Sheet in July 2012 (including *Time Magazine Online*, *The French Tribune*, *Scientific American* and *Fox News*).
- **150 news items** worldwide following the publication of the Ferraccioli et al. *Nature* paper on the structure and origin of the Gamburtsevs in November 2011. The Gamburtsev “*Ghost Mountains mystery solved*” story was the most viewed news story on *BBC News Online* (& *Yahoo News*) with over 1.5 million people visiting the pages.
- **158 news items** worldwide in March 2011 following the publication of the *Science* paper on the discovery of accretion at the base of the East Antarctic Ice Sheet (Bell, Ferraccioli et al.)
- Over **60 news items** worldwide in 2008 and 2009 before and after the AGAP field campaign over the Gamburtsev Subglacial Mountains.
- Several **Live Interviews** (including e.g. live interview on *BBC News World*) on the geophysical exploration of the Gamburtsev Mountains during and following the International Polar Year & more recently -on the ICEGRAV & PolarGAP projects.

FIELD EXPERIENCE

5 summer seasons in Antarctica, including playing a key role in coordinating and managing major international airborne geophysical field campaigns.

- **Dome A, East Antarctica (2008/09)**. Led the UK component of the international campaign; acquired 60,000 line km of BAS aerogeophysical data within the IPY project AGAP (Antarctica’s Gamburtsev Province) that collected 120,000 line km of new data in interior East Antarctica.
- **Victoria Land and George V Land, East Antarctica (2005/06)**. Led the UK component of the international campaign; acquired 60,000 line km of aerogeophysical data within WISE/ISODYN (Wilkes Basin System Exploration/Icehouse Earth: Stability or Dynamism?)
- **Palmer Land, West Antarctica (2002/03)**. Led the aerogeophysical campaign; acquired 20,000 line km of aerogeophysical data within SPARC project (Superterranes of the Pacific margin Arc)

- **Victoria Land, East Antarctica (2001/02).** Led the aeromagnetic survey; acquired over 10,000 line km of aeromagnetic data within the MAGANTER project for the Italian Antarctic Programme
- **Victoria Land & George V Land (1999/2000).** Responsible for aeromagnetic data collection within the BACKTAM/GANOVEX VIII geophysical campaign a joint effort of the Italian Antarctic Programme and BGR (acquired 26,500 line km).

SKILLS

- Project Management skills (applied to complex international & interdisciplinary geophysical, geological and glaciological research field and analyses projects and diverse project teams)
- Negotiating Skills (e.g. with national and international Programme Managers & Science Staff)
- Team Management & Science Leadership Skills
- Mentoring Skills including in particular early to mid-career research staff
- Team Building Skills
- Experienced in Science Strategy and Science Vision work activities
- Experienced in Supervising Graduate and post-graduate geophysics students
- Excellent Presentation Skills (e.g. conference presentations, public talks & media interviews).
- Expert in Potential Fields & Aerogeophysics for Geology, Geodynamics & Ice Sheet studies
- Potential Field Data Processing, Interpretation and Modelling & related software packages.

UK COLLABORATORS

- Prof. Martin Siegert (*Director Grantham Institute for Climate Change & Environment*)
- Prof. Tony Watts (*University of Oxford- now retired*)
- Prof. Jonathan Bamber (*School of Geographical Sciences, University of Bristol, UK; Former EGU President*)
- Prof. Mike Bentley (*Head of Department, Geography, University of Durham, UK*).
- Dr. Steward Jamieson (*Associate Professor, University of Durham, UK*)
- Prof. Robert Bingham (*University of Edinburgh, Head of Global Change Research Institute, UK*)
- Dr. Noel Gourmelen (*Reader School of Geosciences, University of Edinburgh*)
- Dr David Rippin (*Senior Lecturer, University of York, UK*)
- Dr Anne LeBrocq (*Senior Lecturer, University of Exeter, UK*)
- Dr Chris Green (*Lecturer, University of Leeds & GETECH*)
- Prof. Alan Haywood (*formerly at BAS; now Pro-Dean, Faculty of Environment University of Leeds, UK*)
- Prof. Jane Francis (*formerly at Leeds University; now Director at British Antarctic Survey*)
- Prof. Derek Fairhead (*Former Managing Director GETECH, UK & Univ. of Leeds*)
- Prof. Graham Stuart (*University of Leeds*)
- Prof. John Smellie (*formerly at BAS; now University of Leicester, UK*)
- Prof. Nick Kusznr (*University of Liverpool and Bradley Geophysics*)
- Prof. David Drewry (*former Vice-chancellor, University of Hull, UK*)
- Prof. David Vaughan (*Director of Science, British Antarctic Survey, UK*)
- Dr. Phil Leat (*e-fellow at British Antarctic Survey, UK*)

MAIN INTERNATIONAL COLLABORATORS

- Prof. Robin Bell (*Lamont Doherty Earth Observatory, NY, USA; IPY Co-Chair; President Elect AGU*)
- Dr Guy Paxman (*Lamont Doherty Earth Observatory*)
- Dr Carol Finn (*USGS, Denver, USA & Former President Elect AGU*)
- Dr Donald Blankenship (*University of Texas, Austin, USA*)
- Dr Duncan Young (*University of Texas, Austin, USA*)
- Prof. John Holt (*University of Arizona, USA*)
- Prof. Terry Wilson (*Byrd Polar Research Center, Columbus, USA*)
- Prof. Ralph von Frese (*Byrd Polar Research Center, Columbus, USA*)
- Dr. Mark Fahnstock (*University of New Hampshire, USA*)
- Prof. Prasad Gogineni (*University of Kansas, USA*)
- Prof. Doug Wiens (*Washington University in St. Louis, USA*)
- Prof. Bruce Eglington (*Manager Saskatchewan Isotope Laboratory, Canada*)
- Dr Jacqueline Halpin (*Research Fellow, Centre of Excellence in Ore Deposits, University of Tasmania*)
- Prof Anya Reading (*University of Tasmania*)
- Dr. Rene Forsberg (*Head of Geodynamics, National Space Institute, Denmark*)
- Prof Jörg Ebbing (*University of Kiel, Germany*)
- Dr Detlef Damaske (*Bundesanstalt für Geowissenschaften und Rohstoffe-BGR, Hannover, Germany*)
- Dr. Andreas Läufer (*Head of Polar Geology, BGR, Hannover, Germany*)
- Dr. Mirko Scheinert (*Institut für Planetare Geodäsie, Technische Universität Dresden, Germany*)
- Prof. Maximilian Moorkamp (*Dep. Earth and Environ Sci, University of Munich, Germany*)

- Dr Karsten Gohl (*Alfred Wegener Institute*, Bremerhaven, Germany)
- Dr Graeme Eagles (*Alfred Wegener Institute*, Bremerhaven, Germany)
- Dr Ricarda Dziadek (*Alfred Wegener Institute*, Bremerhaven, Germany)
- Dr Daniel Steinhage (*Alfred Wegener Institute*, Bremerhaven, Germany)
- Prof. Frank Lisker (Geodynamics of the Polar Regions, *University of Bremen*, Germany)
- Prof. Wouter van der Wal (*Delft University of Technology*, Netherlands)
- Prof. Kenichi Matsuoka (*Norwegian Polar Institute*, Norway)
- Prof. Joachim Jacobs (*University of Bergen*, Norway)
- Prof. Carmen Gaina (Director Centre of Earth Evolution & Geodynamics, *University of Oslo*, Norway)
- Prof. Giovanni Capponi (Former Director of Geosciences, *Università di Genova*, Italy- now retired)
- Prof. Emanuele Bozzo (*Università di Genova*, Italy- now retired)
- Prof. Laura Crispini (*Università di Genova*, Italy)
- Dr Egidio Armadillo (*Università di Genova*)
- Dr Franco Coren (Director of Infrastructures, OGS)
- Prof. Sergio Rocchi (*Università di Pisa*, Italy)
- Prof. Franco Talarico (*Università di Siena*, Italy)
- Prof. Francesco Salvini (*Università Roma III*, Italy)
- Dr Massimo Chiappini (Former Director *INGV*, Italy)
- Dr Giovanni Macelloni (*Consiglio Nazionale delle Ricerche*, Firenze, Italy)
- Prof. Javier Fullea (Universidad Complutense de Madrid)
- Prof. Catherine Ritz (Director of Research, IGE, University of Grenoble, France)
- Prof. Sun Bo (Deputy Director, *Polar Research Institute of China*)
- Prof. Wang Bangbing (*Zhejiang University*)
- Prof. Yue Zhao (*Chinese Academy of Geological Sciences*, Beijing, China)
- Dr. Y. Nogi (*NIPR*, Tokyo, Japan)
- Prof. Peter Betts (*University of Monash*, Australia)
- Prof. Alan Aitken (Centre for Exploration Targeting, *University of Western Australia*)
- Dr. Sasha Golynsky (*VNIIO*, St. Petersburg, Russia)
- Dr German Leitchenkov (Deputy Director General for Research, *VNIIO*, St. Petersburg, Russia)
- Dr Marta Ghidella (Istituto Antartico Argentino, Buenos Aires, Argentina)
- Prof. Hyung Rae Kim (*Kongju National University*, Korea)
- Dr. Jong Kuk Hong (Vice President, *Korea Polar Research Institute*)

Publications List (2021-1996)

Dr. Fausto Ferraccioli

2021

140. Jordan, T.A. Ferraccioli, F., Forsberg, R., (2021). Shape of East Antarctic basement core and Laurentia link constrained by geophysical data. *Communications Earth & Environment*, Nature Pub. Group (in review).
139. Dziadek, R., Ferraccioli, F., Gohl, K., (2021). High geothermal heat flow beneath Thwaites and Smith glaciers in the Amundsen Sea Embayment, West Antarctica. *Communications Earth & Environment*, Nature Pub. Group (in review).
138. Ebbing, J., Dilixiati, Y., Haas, P., **Ferraccioli, F.**, Scheiber-Enslin, S., (2021). East Antarctica magnetically linked to its ancient neighbours in Gondwana. *Scientific Reports*, Nature Pub. Group, 11, 5513. <https://doi.org/10.1038/s41598-021-84834-1>.

2020

137. Paxman, G.J.G., Gasson, E.G.W., Jamieson, S.S.R., Bentley, M.J., **Ferraccioli, F.** (2020). Long-term increase in Antarctic Ice Sheet vulnerability driven by bed topography evolution. *Geophysical Research Letters*, 47(20), e2020GL090003.
136. Burton-Johnson, A., Dziadek, R., Martin, C., Halpin, J.A., Whitehouse, P.L., Ebbing, J., Martos, Y., Martin, A., Schroeder, D., Shen, W., Ritz, C., Goodge, J., Liefferinge, B.V., Pattyn, F., Reading, A., **Ferraccioli, F.**, and The SERCE Geothermal Heat Flow Sub-Group (2020). *SCAR-SERCE White Paper*.
135. Morlighem, M., Rignot, E., Binder, T., Blankenship, D., Drews, R., Eagles, G., Eisen, O., **Ferraccioli, F.**, Fretwell, P., Forsberg, R., Goel, V., Greenbaum, J. S., Gudmundsson, G. H., Guo, J., Helm, V., Hofstede, C., Howat, I., Humbert, A., Jokat, W., Karlsson, N. B., Lee, W. S., Matsuoka, K., Millan, R., Mouginit, J., Paden, J., Pattyn, F., Roberts, J., Rosier, S. H. R., Ruppel, A., Seroussi, H., Smith, B. E., Steinhage, D., Sun, B., van den Broeke, M. R., van Ommen, T. D., Van Wessem, J. M., & Young, D. A. (2020). Deep glacial troughs and stabilizing ridges unveiled beneath the margins of the Antarctic ice sheet. *Nature Geoscience*, 13, 132– 137. <https://doi.org/10.1038/s41561-019-0510-8>.

2019

134. Pappa, F., Ebbing, J., **Ferraccioli, F.**, van der Wal, V. (2019). Modeling Satellite Gravity Gradient Data to Derive Density, Temperature, and Viscosity Structure of the Antarctic Lithosphere. *Journal of Geophysical Research: Solid Earth*, 124, 12,053– 12,076. <https://doi.org/10.1029/2019JB017997>.
133. Paxman, G.J.G., Jamieson, S.S.R., Hochmuth, K., Gohl, K., Bentley, M.J., Leitchenkov, G., **Ferraccioli, F.**, (2019). Reconstructions of Antarctic topography since the Eocene-Oligocene boundary. *Palaeogeogr. Palaeoclimatol. Palaeoecol.* 535. <https://doi.org/10.1016/j.palaeo.2019.109346>.

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Additional Notes

Dr. Fausto Ferraccioli was or is an active member of **ADMAP, ACRUP, & TENAP** International Working Groups and contributed to data analysis, interpretation & related MS writing.

Dr. Fausto Ferraccioli also contributed to ca. 450 conference presentations at international geophysical and geological meetings and geosciences conferences/workshops.

Recent Publication & Public Domain Data release of major Aerogeophysical Datasets

Adelaide Island:

1. Jordan, T., & **Ferraccioli, F.** (2020). Processed line aeromagnetic data over Adelaide Island (2011) [Data set]. UK Polar Data Centre, Natural Environment Research Council, UK Research & Innovation. <https://doi.org/10.5285/CECA9A1E-7E8D-45B8-8D58-FD3625A54DA7>.

AFI Coats and Land:

2. **Ferraccioli, F.**, Bamber, J., Joughin, I., Shepherd, T., Rippin, D., Siegert, M., & Vaughan, D. (2020). Processed line aeromagnetic data over Coats Land, including the region of three tributaries of Slessor Glacier, East Antarctica (2001/02 season) [Data set]. UK Polar Data Centre, Natural Environment Research Council, UK Research & Innovation. <https://doi.org/10.5285/8AC60C79-D768-4EE1-969F-CCE671824085>.
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4. **Ferraccioli, F.**, Jordan, T., Ross, N., Corr, H., Leat, P., Bingham, R., Rippin, D., Le Brocq, A., & Siegert, M. (2020). Processed line aeromagnetic data over the Institute and Moller region (2010/11 season) [Data set]. UK Polar Data Centre, Natural Environment Research Council, UK Research & Innovation. <https://doi.org/10.5285/03C3180B-97EF-4923-86E1-7AC9EAB99497>.
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AGAP:

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