

Curriculum Vitae

Education and scientific degrees:

1978-1983 undergraduate study at the Department of Geology, University of Warsaw, Poland (B.Sc.)

1984-1985 graduate study at the Department of Earth Sciences, University of Waterloo, Canada (M.Sc.; thesis "The Woodstock Drumlin Field, southern Ontario: Quaternary geology, palaeogeomorphology and mechanisms of formation")

1986-1991 Ph.D. study at the Institute of Geology and Palaeontology, University of Kiel, Germany (Dr. rer. nat.; thesis: "Quartär und hydrogeologische Untersuchungen im Bereich der Bornhöveder Seenkette, Schleswig-Holstein"), supplementary studies of geophysics and soil science

1996 Habilitation at the Institute of Geology and Palaeontology, University of Kiel, Germany; (Dr. rer. nat. habil.; thesis: "Dynamik und subglaziale Hydrogeologie der weichselzeitlichen Eiskappe in Zentral-Schleswig-Holstein"), *Venia Legendi* for the discipline Geology

Professional employment:

1984-1985 Research and Teaching Assistant at the University of Waterloo, Canada

1986-1987 Research Assistant at the Institute of Geology and Palaeontology, University of Kiel, Germany

1987-1992 Research Fellow at the Institute of Geology and Palaeontology, University of Kiel, Germany

1992-1997 Assistant Professor at the Institute of Geology and Palaeontology, University of Kiel, Germany

1997-1999 Professor and Head of Geology Division at the Department of Geophysics and Geology, University of Leipzig, Germany

Since 1999 Professor of Quaternary Geology at the Department of Earth Sciences, University of Aarhus, Denmark

2006-2011 Chair in Sedimentary Systems at the Department of Geography, University of Sheffield, UK

2012-2014 Honorary Professor, University of Sheffield, UK

Some scholarly activities:

Since 2000 Editor-in-Chief of Boreas (International Journal of Quaternary Research)

Since 2006 Member of the Editorial Board of Bulletin of Geography

Since 2002 Member of the Danish National Committee of INQUA

Since 2006 Member of ESF pool of reviewers

Since 2007 Member of Natural Science and Engineering Research Council of Canada (NSERC) reviewer panel

Since 2007 Corresponding Member of TERPRO Commission, INQUA

Since 2008 Voting Member of International Subcommittee on Quaternary Stratigraphy

Since 2010 President of Boreas Society

Since 2006 Director of Sheffield-Aarhus Geoscience Alliance (SAGA)

Since 2011 Vice-Head of Department, Department of Geoscience, Aarhus University (AU)

Since 2004 Editor of Aarhus Geoscience

Since 2002 Departmental co-ordinator of the EU-Socrates/Erasmus programme, AU

Since 2011 Head of Earth Surface Systems Sector, Department of Geoscience, AU

Since 2013 Advisory Board member of Institute of Integrated Climate and Landscape Analyses (ICLEA), Helmholtz Research Association (Germany, Poland)

Since 2013 Member of International Education Committee at the Faculty of Science and Technology, AU
Since 2014 Member of Editorial Board of Bulletin of the Polish Geological Institute
1995-2003 Vice-President and President of the INQUA Commission on Glaciation
1995-2003 Secretary of the Peribaltic Group
1999-2002 Editorial Board Member of Geological Quarterly
2000-2005 Advisory Board Member of EU-programme REA, Centre of Excellence, Polish Geological Institute
2000-2014 Member of External Reviewers Panel for Geography, University of Copenhagen
2000-2008 Member of the Editorial Board of Quaternary Science Reviews
2002-2012 Member of the Editorial Board of Quaternary Science Journal - Eiszeitalter und Gegenwart
2003-2007 Vice-President of International Union for Quaternary Research (INQUA)
2003-2009 Consulting Editor of Geological Quarterly
2004-2005 Member of ICS/INQUA Quaternary Task Force
2004-2014 Director of Departmental Ph.D. School and Member of Faculty Ph.D. School Board, AU

Teaching:

Courses in physical geology and physical geography, Quaternary geology, glacial geology, sedimentology, hydrogeology, computer methods in geology, mathematical modelling, geo-hazards, field and mapping courses. Compact courses within international frameworks, supervision of 76 M.Sc. theses and 8 Ph.D. theses.

Research interests:

Glacial geology and sedimentology with focus on subglacial processes, deposits and landforms; Quaternary studies; palaeoglaciology; hydrogeology. Combining field, experimental and numerical methods to learn about Earth surface's evolution in glacial/interglacial cycles.

Selected publications:

- Błaszkiwicz, M., **Piotrowski, J.A.**, Brauer, A., Gierszewski, P., Kordowski, J., Kramkowski, M., Lamparski, P., Lorenz, S., Noryskiewicz, A.M., Ott, F., Słowiński, M. & Tyszkowski, S. (2015): Climatic and morphological controls on diachronous postglacial lake and river valley evolution in the area of Last Glaciation, northern Poland.- *Quaternary Science Reviews* 109, 13-27.
- Lesemann, J.-E., **Piotrowski, J.A.** & Wysota, W. (2014): Genesis of the 'glacial curvilineation' landscape by meltwater processes under the former Scandinavian Ice Sheet, Poland.- *Sedimentary Geology* 312, 1-18.
- Tylmann, K., Wysota, W. & **Piotrowski, J.A.** (2014): Przetrwale formy morenowe na NW skłonie Garbu Lubawskiego - struktura i mechanizmy formowania (Palimpsest morainic landforms in NW part of Lubawa Upland - structure and mechanisms of formation).- *Landform Analysis* 25, 143-158.
- Narloch, W., Wojciechowska, J.M., Osowicka, A., Wysota, W., **Piotrowski, J.A.** & Sobiech, M. (2014): Zróżnicowanie facjalne glin jako wskaźnik fluktuacji ciśnienia wód subglacjalnych na kontakcie lodu i podłoża podczas zlodowacenia wisły w północnej części Pojezierza Dobrzyńskiego (Facies diversity of tills as proxy of water pressure fluctuations at the ice-bed interface during the Weichselian glaciation in the northern part of Dobrzyń Lakeland).- *Landform Analysis* 25, 125-134.
- Høyer, A.-S., Jørgensen, F., **Piotrowski, J.A.** & Jakobsen, P.R. (2013): Deeply rooted glaciotectionism in western Denmark: Geological composition, structural characteristics and the origin of Varde hill-island.- *Journal of Quaternary Science* 28(7), 683-696.
- Damsgaard, A., Egholm, D. **Piotrowski, J.A.**, Tulaczyk, S., Larsen, N.K. & Tylmann, K. (2013): Discrete element modeling of subglacial sediment deformation.- *Journal of Geophysical Research – Earth Surface* 118, 1-13.

- Narloch, W. & **Piotrowski, J.A.** (2013): Mikromorfologia glin lodowcowych jako narzędzie w rekonstrukcji procesów subglacialnych (Micromorphology of tills as a tool in reconstructing subglacial processes).- *Przegląd Geologiczny* 61(5), 294-303.
- Narloch, W., Wysota, W. & **Piotrowski, J.A.** (2013): Sedimentological record of subglacial conditions and ice sheet dynamics of the Vistula Ice Stream (north-central Poland) during the Last Glaciation.- *Sedimentary Geology* 293, 30-44.
- Menzies, J. & **Piotrowski, J.A.** (2013): Subglacial environments – Introduction.- *Boreas* 42, 374-375.
- Tylmann, K., **Piotrowski, J.A.** & Wysota, W. (2013): The ice/bed interface mosaic: deforming spots intervening with stable areas under the fringe of the Scandinavian Ice Sheet at Samplawa, Poland.- *Boreas* 42, 428-441.
- Cita, M.B., Gibbard, P.L., Head, M.J. and the International Subcommission on Quaternary Stratigraphy: Alloway, B., Beu, A.G., Coltorti, M., Hall, V.M., Jiaqi, L., Knudsen, K.L., van Kolfschoten, T., Litt, T., Marks, L., McManus, J., Partridge, T.C., **Piotrowski, J.A.**, Pillans, B., Rousseau, D.-D., Suc, J.-P., Tesakov, A.S., Turner, C. & Zazo, C. (2012): Formal ratification of the GSSP for the base of the Calabrian Stage (second stage of the Pleistocene Series, Quaternary System). *Episodes* 35(3), 388-397.
- Madsen, T.M. & **Piotrowski, J.A.** (2012): Genesis of the glaciotectionic thrust-fault complex at Halk Hoved, southern Denmark.- *Bulletin of the Geological Society of Denmark* 60, 61-80.
- Narloch, W., **Piotrowski, J.A.**, Wysota, W., Larsen, N.K. & Menzies, J. (2012): The signature of strain magnitude in tills associated with the Vistula Ice Stream of the Scandinavian Ice Sheet, central Poland.- *Quaternary Science Reviews* 57, 105-120.
- Livingstone, S.J., Clark, C.D., **Piotrowski, J.A.**, Tranter, M., Bentley, M.J., Hodson, A., Swift, D.A. & Woodward, J. (2012): Theoretical framework and diagnostic criteria for the identification of palaeo-subglacial lakes.- *Quaternary Science Reviews* 53, 88-110.
- Kehew, A.E., **Piotrowski, J.A.** & Jørgensen, F. (2012): Tunnel Valleys: Concepts and Controversies — A Review.- *Earth-Science Reviews* 113, 33-58.
- Piechota, A.M., Sitek, S., Ignatiuk, D. & **Piotrowski, J.A.** (2012): Rekonstrukcja drenażu subglacialnego lodowca Werenskiolda (SW Spitsbergen) na podstawie modelowania numerycznego (Reconstructing subglacial drainage of Werenskiold glacier (SE Spitsbergen) based on numerical modelling).- *Biuletyn Państwowego Instytutu Geologicznego* 451, 191-202.
- Bateman, M.D., Swift, D.A., **Piotrowski, J.A.** & Sanderson, D.C.W. (2012): Investigating the effects of glacial shearing of sediment on luminescence.- *Quaternary Geochronology* 10, 230-236.
- Piotrowski, J.A.** (2011): Till.- *In* Singh, V.P., Singh, P. & Haritashya, U.K. (Eds.): *Encyclopedia of Snow, Ice and Glaciers*.- 1181-1187. *Encyclopedia of Earth Sciences Series*, Springer, Dordrecht.
- Piechota, A. & **Piotrowski, J.A.** (2010): Drenaż subglacialny lądolodu skandynawskiego (Polska NW) w świetle modelowania numerycznego (Subglacial drainage of the Scandinavian Ice Sheet in NW Poland from numerical modelling).- *Landform Analysis* 13, 91-106.
- Lesemann, J.-E., Alsop, G.I. & **Piotrowski, J.A.** (2010): Incremental subglacial meltwater sediment deposition and deformation associated with repeated ice-bed decoupling: a case study from the Island of Funen, Denmark.- *Quaternary Science Reviews* 23-24, 3212-3229.
- Lesemann, J.-E., **Piotrowski, J.A.** & Wysota, W. (2010): „Glacial curvilineations”: New glacial landforms produced by longitudinal vortices in subglacial meltwater flows.- *Geomorphology* 120, 153-161.

- Gibbard, P., Head, M.J., Walker, M. and the International Subcommission on Quaternary Stratigraphy: Alloway, B., Beu, A.G., Coltorti, M., Hall, V.M., Jiaqi, L., Knudsen, K.L., van Kolfschoten, T., Litt, T., Marks, L., McManus, J., Partridge, T.C., **Piotrowski, J.A.**, Pillans, B., Rousseau, D.-D., Suc, J.-P., Tesakov, A.S., Turner, C. & Zazo, C. (2010): Formal ratification of the Quaternary System/Period and the Pleistocene Series/Epoch with a base at 2.588 Ma.- *Journal of Quaternary Science* 25(2), 96-102.
- Hermanowski, P. & **Piotrowski, J.A.** (2009): Drenaż subglacjalny i jego wpływ na dynamikę lobu Odry zlodowacenia wisły (Subglacial drainage and its influence on the dynamics of the Weichselian Odra lobe).- *Przegląd Geologiczny* 57(6), 504-512.
- Nielsen, S.B., Gallagher, K., Leighton, C., Balling, N., Svenningsen, L., Jacobsen, B.H., Thomsen, E., Nielsen, O.B., Heilmann-Clausen, C., Egholm, D.L., Summerfield, M.A., Clausen, O.R., **Piotrowski, J.A.**, Thorsen, M.R., Huuse, M., Abrahamsen, N., King, C. & Lykke-Andersen, H. (2009): The evolution of western Scandinavian topography: A review of Neogene uplift versus the ICE (isostasy-climate-erosion) hypothesis.- *Journal of Geodynamics* 47(2-3), 72-95.
- Piotrowski, J.A.**, Hermanowski, P. & Piechota, A. (2009): Meltwater discharge through the subglacial bed and its land-forming consequences in the Polish lowland during the Last Glaciation.- *Earth Surface Processes and Landforms* 34(4), 481-492.
- Kristensen, T.B., **Piotrowski, J.A.**, Huuse, M., Clausen, O.R. & Hamberg, L. (2008): Time-transgressive tunnel valley formation indicated by infill sediment structure, North Sea – the role of glaciohydraulic supercooling.- *Earth Surface Processes and Landforms* 33, 546-559.
- Kristensen, T.B., Huuse, M., **Piotrowski, J.A.** & Clausen, O.R. (2007): A morphometric analysis of tunnel valleys in the eastern North Sea based on 3D seismic data.- *Journal of Quaternary Science* 22, 801-815.
- Larsen, N.K., **Piotrowski, J.A.** & Menzies, J. (2007): Microstructural evidence of low-strain, time-transgressive subglacial deformation.- *Journal of Quaternary Science* 22(6), 593-608.
- Piotrowski, J.A.**: Quaternary at the top. Review of: Elias, S.A. (ed.) 2007: *Encyclopedia of Quaternary Science*. Elsevier, Vol. 1-4, 3365 pp.- *Boreas* 36, 222-223.
- Larsen, N.K., **Piotrowski, J.A.**, Christoffersen, P. & Menzies, J. (2006): Formation and deformation of basal till during a glacier surge; Elisebreen, Svalbard.- *Geomorphology* 81, 217-234.
- Larsen, N.K., **Piotrowski, J.A.** & Christiansen, F. (2006): Microstructures and microshears as proxy for strain in subglacial diamicts: Implications for basal till formation.- *Geology* 34(10), 889-892.
- Marczinek, S. & **Piotrowski, J.A.** (2006): Groundwater flow under the margin of the last Scandinavian ice sheet around the Eckernförde Bay, northwest Germany. In: Knight, P.G. (Ed.): *Glacier science and environmental change*, 60-62. Blackwell Publishing, Oxford.
- Piotrowski, J.A.** (2006): Groundwater under ice sheets and glaciers. In: Knight, P.G. (Ed.): *Glacier science and environmental change*, 50-59. Blackwell Publishing, Oxford.
- Piotrowski, J.A.**, Larsen, N.K., Menzies, J. & Wysota, W. (2006): Formation of a subglacial till under transient bed conditions: deposition, deformation, and basal decoupling under a Weichselian ice sheet lobe, central Poland.- *Sedimentology* 53, 83-106.
- Rinterknecht, V.R., Clark, P.U., Raisbeck, G.M., Yiou, F., Bitinas, A., Brook, E.J., Marks, L., Zelčs, V., Lunkka, J.-P., Pavlovskaya, I.E., **Piotrowski, J.A.** & Raukas, A. (2006): The Last Deglaciation of the Southeastern Sector of Scandinavian Ice Sheet.- *Science* 311, 1449-1452.

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- Christoffersen, P., **Piotrowski, J.A.** & Larsen, N.K. (2005): Basal processes beneath an Arctic glacier and their geomorphic imprint after a surge, Elisebreen, Svalbard.- *Quaternary Research* 64, 125-137.
- Larsen, N.K. & **Piotrowski, J.A.** (2005): Fabric pattern in a basal till succession and its significance for reconstructing subglacial processes – reply. *Journal of Sedimentary Research* 75(2), 325-326.
- Rinterknecht, V.R., Marks L., **Piotrowski J.A.**, Raisbeck G.M., Yiou F., Brook E.J. & Clark P.U. (2005): Cosmogenic ¹⁰Be ages on the Pomeranian Moraine, Poland.- *Boreas* 34(2), 186-191.
- Piotrowski, J.A.**, Larsen, N.K. & Junge, F.W. (2004): Reflections on soft subglacial beds as a mosaic of deforming and stable spots.- *Quaternary Science Reviews* 23, 993-1000.
- Larsen, N.K., **Piotrowski, J.A.** & Kronborg, C. (2004): A multiproxy study of a basal till: a time-transgressive accretion and deformation hypothesis.- *Journal of Quaternary Science* 19(1), 9-21.
- Huuse, M., **Piotrowski, J.A.** & Lykke-Andersen, H. (2003): Geophysical investigations of buried Quaternary valleys in the formerly glaciated NW European lowland: significance for groundwater exploration; Editorial.- *Journal of Applied Geophysics* 53(4), 153-157.
- Piotrowski, J.A.** (2003): Glaciers at work.- *Nature* 424, 737-738.
- Piotrowski, J.A.** & Windelberg, S. (2003): Glazialtektonik weichselzeitlicher Ablagerungen in Zentral-Fünen, Dänemark.- *Eiszeitalter und Gegenwart* 53, 39-53.
- Rattas, M. & **Piotrowski, J.A.** (2003): Influence of bedrock permeability and till grain size on the formation of the Saadjärve drumlin field, Estonia, under an east-Baltic Weichselian ice stream.- *Boreas* 32(1), 167-177.
- Jørgensen, F. & **Piotrowski, J.A.** (2003): Signature of the Baltic Ice Stream on Funen Island, Denmark during the Weichselian glaciation.- *Boreas* 32(1), 242-256.
- Larsen, N.K. & **Piotrowski, J.A.** (2003): Fabric pattern in a basal till succession and its significance for reconstructing subglacial processes.- *Journal of Sedimentary Research* 73(5), 725-734.
- Clark, C.D., Evans, D.J.A. & **Piotrowski, J.A.** (2003): Palaeo-ice streams: an introduction.- *Boreas* 32(1), 1-3.
- Rinterknecht, V.R., Raisbeck, G.M., Yiou, F., Clark, P.U., Bitinas, A., Marks, L., **Piotrowski, J.A.**, Zelcs, V. & Brook, E.J. (2002): Preliminary ¹⁰Be chronology for the last deglaciation of the southern Scandinavian Ice Sheet. – *Geochimica et Cosmochimica Acta* 66(15A), A640-A640.
- Piotrowski, J.A.**, Mickelson, D.M., Tulaczyk, S., Krzyszkowski, D. & Junge, F. (2002): Deforming soft beds under ice sheets: how extensive were they? Reply to comments by G.S. Boulton, K.E. Dobbie & S. Zatzepin. - *Quaternary International* 97-98, 173-177.
- Kaleris, V., Lagas, G., Marciznek, S. & **Piotrowski, J.A.** (2002): Modelling submarine groundwater discharge: an example from the western Baltic Sea.- *Journal of Hydrology* 265, 76-99.
- Marciznek, S. & **Piotrowski, J.A.** (2002): Grundwasserströmung und –beschaffenheit im Einzugsgebiet der Eckernförder Bucht, Schleswig-Holstein.- *Grundwasser* 2/2002, 101-110.
- Piotrowski, J.A.**, Mickelson, D.M., Tulaczyk, S., Krzyszkowski, D. & Junge, F. (2001): Were subglacial deforming beds beneath past ice sheets really widespread?- *Quaternary International* 86, 139-150.
- Hoffmann, K. & **Piotrowski, J.A.** (2001): Till mélange at Amsdorf, central Germany: sediment erosion, transport and deposition in a complex, soft-bedded glacial system.- *Sedimentary Geology* 140, 215-234.

- Piotrowski, J.A.**, Geletneky, J. & Vater, R. (1999): Soft-bedded subglacial meltwater channel, from the Welzow-Sued open-cast lignite mine, Lower Lusatia, eastern Germany.- *Boreas* 28, 363-374.
- Piotrowski, J.A.** (1999): Channelized subglacial drainage under soft-bedded ice sheets: evidence from small N-channels in Central European Lowland. In: Marks, L. and **Piotrowski, J.A.** (eds.), *Geological Quarterly special issue* 43(2), 153-162.
- Piotrowski, J.A.** & Tulaczyk, S. (1999): Subglacial conditions under the last ice sheet in northwest Germany: ice-bed separation and enhanced basal sliding Germany?- *Quaternary Science Reviews* 18, 737-751.
- Piotrowski, J.A.** (1999): Discussion; comments on: Boulton, G.S., Caban, P.E., van Gijssel, K., Leijnse, A., Punkari, M. and van Weert, F.H.A. "The impact of glaciation on the groundwater regime of Northwest Europe", *Global and Planetary Change* 12(1996), 397-413.- *Global and Planetary Change* 20, 289-290.
- Piotrowski, J.A.** & Kraus, A. (1997): Response of sediment to ice sheet loading in northwestern Germany: effective stresses and glacier bed stability.- *Journal of Glaciology* 43, 495-502.
- Blank, D. & **Piotrowski, J.A.** (1997): Geostatistische Regionalisierung des Sandgehaltes eines Tills - Zusammenhang zwischen Variogramm Kennwerten und Beprobungsdichte.- *Meyniana* 49, 31-46.
- Piotrowski, J.A.**, Döring, U., Harder, A., Qadir, R. & Wenghöfer, S. (1997): Deforming bed conditions on the Dänischer Wohld Peninsula, northern Germany: Comments.- *Boreas* 26, 73-77.
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- Piotrowski, J.A.** (1997): Subglacial groundwater flow during the last glaciation in northwestern Germany.- *Sedimentary Geology*, 111(1-4), 217-224.
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- Piotrowski, J.A.**, Bartels, F., Salski, A., Schmidt, G. (1996): Estimation of hydrogeological parameters for groundwater modelling with fuzzy geostatistics: closer to nature?- In: Kovar, K. & van der Heijde, P. (eds.) *Calibration and Reliability in Groundwater Modelling; Int. Conf. ModelCARE'96*, Golden (Colorado), USA, 24.-26. Sept. 1996; *Proceedings*, 511-520.
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