

SECE 2007/2008 Annual Report to IMA

Prepared by

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Activities 2007-2008:

1. Publication of the special *Lithos* issue “The origin, evolution and present state of continental lithosphere” (Eds., Y. Niu & S. Song), *Lithos*, 96, 1-324, 2007.
<http://www.dur.ac.uk/yaoling.niu/MyReprints-pdf/2007Niu&Song-Lithos-Preface.pdf>
<http://www.dur.ac.uk/yaoling.niu/MyReprints-pdf/2007Niu&SongEditedLithosIssue.pdf>
This special issue is based on the IUGS-SECE International conference of the same theme: 25th-July 1st, 2005, Peking University, Beijing, China (<http://www.dur.ac.uk/yaoling.niu/MyReprints-pdf/2005SECEBeijingEpisodesReport.pdf>)
2. Publication of the special *Chemical Geology* issue “The Great Plume Debate: Testing the plume theory” (Eds., I.H. Campbell & A.C. Kerr), *Chemical Geology*, 241, 149-374, 2007.
<http://www.dur.ac.uk/yaoling.niu/Temporary/2007-Campbell&Kerr-ChemicalGeology.pdf>
This special issue is based on the IUGS-SECE and AGU Chapman Conference “The Great Plume Debate: The Origin and Impact of LIPs and Hot Spots”: August 28th-September 1st, 2005, Fort William, Scotland, UK (<http://www.agu.org/meetings/cc05gcall.html>).
3. Publication of the special *Chemical Geology* issue “Highly Siderophile Element Geochemistry” (Eds., A. Luguét, D.G. Pearson, D. Selby, J. Brenan & T. Meisel), *Chemical Geology*, 248, 115-426, 2008.
[http://www.dur.ac.uk/yaoling.niu/Temporary/SECE-CG-SpecialHSEIssues248-3&4\(115-426\).pdf](http://www.dur.ac.uk/yaoling.niu/Temporary/SECE-CG-SpecialHSEIssues248-3&4(115-426).pdf)
This special issue is based on the Third International Workshop (SECE sponsored) on “Highly siderophile element geochemistry”: July 5th-7th, 2006, Durham, UK
(http://www.dur.ac.uk/sece/news/highly_siderophile.html)
4. Symposium on “Structure of the lithosphere: the petro-geophysical approach”: March 19th-21st, 2007, Geological Survey of Canada, Ottawa, Canada. A special *Lithos* special issue (Ed, N. Arndt) is soon to be published (<http://www.dur.ac.uk/yaoling.niu/Temporary/2007-SECE-Arndt-Canada.pdf>)
5. A special *Lithos* issue on “Recent developments on seafloor petrology and tectonics” (Ed., Y. Niu) is on the way, expected to be published in early 2009.
6. Smooth migration of the SECE from the IUGS to the IMA.
7. SECE Leadership change. From January 1st, 2009 on, [1] Yaoling Niu steps down from the Chairmanship; [2] Andrew Kerr will be the new Chairman and Treasurer; [3] Pat Castillo will be the new Vice Chairman; [4] Ian Campbell will step down from the Secretary General position; and [5] David Peate will be the new Secretary General.

Plans 2009-2010:

8. Publication of two special issues (4 and 5 above)
9. A special symposium “Magma generation and evolution and global tectonics - A symposium in honor of **Peter J. Wyllie** for his life-long contributions to understanding how the Earth works by means of experimental petrology” has been organized by Yaoling Niu (Durham University, UK), Marge Wilson (Leeds University, UK), Ed Stolper (Caltech, UK) and Hans Keppler (University of Bayreuth, Germany) as part of the 2009 Goldschmidt Conference (Davos, Switzerland, June 21 to 26, 2009) (http://www.goldschmidt2009.org/themes?theme=4#session_04d)
10. A two-day multi-disciplinary workshop on “The tectonomagmatic evolution of the Caribbean and north Andean region and its implications for paleoclimate and resource formation” has been well planned to take place at Cardiff University, Wales, UK on September 2nd and 3rd, 2009. A special *Lithos* issue (Ed., A. Kerr) based on this workshop is planned.
11. We are in the process of planning an International Workshop on “The tectonomagmatic evolution of the Tibetan Plateau” to be held in Lhasa, Tibet in 2010. We also consider organizing a special *Lithos* or *Tectonophysics* issue to report the state-of-the-art knowledge on the origin and evolution of the Tibetan Plateau and continental growth.
12. We are also in the process of planning an International Workshop on “The role of oceanic lithospheric slabs in subduction-zone magmatism” for 2010 and a special *Lithos* issue based on the workshop.

Finance and royalties 2009-2010:

13. Our finances remain in excellent shape, and over the last year we have received royalties from Elsevier for publications 1-3 (listed above) amounting to £26k. Our total balance at 9 November 2008 is £31,178.93. In 2009 we will be receiving the royalties for 4 & 5 (above). This money will be used to support future meetings (items 10-12).