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# Ross William Kerrill Potter

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## EDUCATION

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### 2012 | PhD, Planetary Science

Dept. Earth Science and Engineering, Imperial College London, UK

Thesis: *Numerical modelling of basin-scale impact crater formation*

Supervisor: Dr. Gareth Collins

### 2008 | MSci, Geophysics with a Year Abroad (first class honours)

Dept. Earth Science and Engineering, Imperial College London, UK;

Dept. Earth and Space Sciences, University of California, Los Angeles, USA

MSci Thesis: *Asteroid deflection by direct impact*

Supervisor: Dr. Gareth Collins

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## PROFESSIONAL EMPLOYMENT

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### 10/2014 – date | Postdoctoral Research Associate

Dept. Earth, Environmental and Planetary Sciences, Brown University, Providence, RI, USA

### 02/2012 – 09/2014 | Postdoctoral Fellow

#### (10/2014 – date | Visiting Scientist)

Center for Lunar Science and Exploration, USRA-Lunar and Planetary Institute, Houston, TX, USA

- Research focused on understanding the structure and formation of impact craters and basins using, primarily, the iSALE shock physics modeling code.
  - Member of the NASA Solar System Exploration Research Virtual Institute (Brown University); former member of the NASA Lunar Science Institute (Lunar and Planetary Institute).
  - Currently working with Prof. Jim Head (Brown University) having previously worked with Dr. David Kring (Lunar and Planetary Institute).
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## TEACHING EXPERIENCE

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### 01/2015 – 05/2015 | Course Instructor

Dept. Earth, Environmental and Planetary Sciences, Brown University, USA

- Course instructor for graduate seminar course GEOL2810 ‘The impact crater to basin transition on the Moon and Mercury’. Responsible for syllabus creation, project marking, and teaching topics such as hydrocode modeling and impact scaling to ten students.

### Summer 2012, 2013 | Lunar Graduate Intern Mentor

Lunar and Planetary Institute, Houston, TX, USA

- Guidance and support, on topics including presentation skills and writing styles, for graduate interns.

## **10/2008 – 12/2011 | Undergraduate Teaching Assistant**

Dept. Earth Science & Engineering, Imperial College London, UK

- Teaching assistant for physics- and math-based undergraduate and masters level classes (Applied Geophysics, Geodesy & Geomagnetism, Global Geophysics & Tectonics, Marine Geology & Geophysics, Mathematical Methods, Processes in Geoscience, and Vibrations & Waves). Responsibilities included marking homework and providing feedback.

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## **WORK EXPERIENCE**

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### **06/2012 | NASA Planetary Science Summer School**

Jet Propulsion Laboratory, Pasadena, CA, USA

- Member of a team proposing and designing a mission to Io.

### **10/2010, 10/2012 | Impact Crater Field Training and Research Program**

Meteor Crater, AZ, USA; Sudbury, ON, Canada

- Field research experience at two impact craters.

### **06/2010 – 08/2010 | Lunar Exploration Intern**

Lunar and Planetary Institute, Houston, TX, USA

- Evaluated landing sites for possible future manned Moon missions.

### **06/2009 – 07/2009 | Graduate Researcher**

Lunar and Planetary Institute, Houston, TX, USA

- Investigated the formation of the Moon's South Pole-Aitken impact basin.

### **01/2007 – 06/2007 | Undergraduate Research Assistant**

Institute of Geophysics & Planetary Physics, University of California, Los Angeles, CA, USA

- Solar-terrestrial physics data analyst.

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## **INVITED SEMINARS**

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**03/2015** | *Formation and Evolution of the South Pole-Aitken Basin and Other Large Lunar Basins*, Microsymposium 56: The crust of the Moon, Houston, TX, USA

**03/2015** | *How did they do that? Mechanics and scaling of basin-forming impacts*, Massachusetts Institute of Technology, Boston, MA, USA

**07/2014** | *Impact basins and the Moon: Understanding very large crater formation*, Lunar and Planetary Institute, Houston, TX, USA

**05/2014** | *Scarring the lunar surface: The formation of impact basins*, Brown University, RI, USA

**12/2013** | *Forming the largest basins on the Moon*, Open University, Milton Keynes, UK

**07/2013** | *The Moon: An ideal laboratory for investigating impact cratering*, Lunar and Planetary Institute Intern Brown Bag, Houston, TX, USA

**05/2013** | *A crash course in impact cratering*, Johnson Space Center Astronomical Society, Houston, TX, USA

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## PROFESSIONAL SERVICE

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### Journal Article Reviewer

Geophysical Research Letters (2014), Icarus (2013, 2015)

### Proposal Review Panel Member

NASA Emerging Worlds (2015); NASA Earth and Space Science Fellowship (2015); NASA Lunar Data Analysis (2015); NASA Planetary Geology & Geophysics (2013); Eugene M. Shoemaker Impact Cratering Award (2013, 2014)

### Program Committee Member

Workshop on Early Solar System Impact Bombardment III, Houston, TX, USA (2015)  
Lunar and Planetary Science Conference, Houston, TX, USA (2013-2015)  
British Geophysical Association Postgraduate Research in Progress, London, UK (2009)

### Conference Session Chair

Bridging the Gap III: Impact Cratering in Nature, Experiments, and Modeling (2015);  
Workshop on Early Solar System Bombardment III (2015); Lunar and Planetary Science Conference (2013-2015); Lunar (and Small Bodies) Graduate Conference (2012, 2015)

### Student Award Judge

Dwornik Award, Lunar and Planetary Science Conference, Houston, TX, USA (2013)  
Outstanding Planetary Student Paper, American Geophysical Union, San Francisco, CA, USA (2012)

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## OTHER RESPONSIBILITIES

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### Seminar Series Organizer

2012 – 2013 | Lunar and Planetary Institute, Houston, TX, USA

### Graduate Students Committee Member

2009 – 2010 | Dept. Earth Science and Engineering, Imperial College London, UK

### Treasurer

2008 – 2010 | City and Guilds Motor Club, Imperial College London, UK

### Student Ambassador

2008 – 2009 | Imperial College London, UK

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## EDUCATION AND PUBLIC OUTREACH

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### 06/2014 | Video Simulations of Impact Cratering Processes

Lunar and Planetary Institute, Houston, TX, USA

- Produced a set of impact simulations demonstrating and explaining the formation of impact craters on a variety of scales, for use in the classroom. The videos can be accessed at [http://www.lpi.usra.edu/exploration/training/resources/impact\\_cratering/](http://www.lpi.usra.edu/exploration/training/resources/impact_cratering/)

### 04/2012 – 09/2014 | SkyFest Space Days Volunteer

Lunar and Planetary Institute, Houston, TX, USA

- Volunteer overseeing activities and interacting with parents and children.
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## TECHNICAL SKILLS

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### Computer Programming

Fortran 95, Linux- and Windows-based operating systems.

### Software

Microsoft Word, Powerpoint, Excel; L<sup>A</sup>T<sub>E</sub>X; Adobe Illustrator and Photoshop.

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## JOURNAL PUBLICATIONS

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**Potter, R. W. K.**, Kring, D. A., Collins, G. S. (2015) Scaling of basin-sized impacts and the influence of target temperature, *Large Meteorite Impacts & Planetary Evolution V: Geological Society of America Special Paper 518*, 99–113, doi:10.1130/2015.2518(06).

**Potter, R. W. K.** (2015) Investigating the onset of multi-ring impact basin formation, *Icarus*, 261, 91–99, doi:10.1016/j.icarus.2015.08.009.

**Potter, R. W. K.**, Kring, D. A., Collins, G. S. (2013) Quantifying the attenuation of structural uplift beneath large lunar craters, *Geophysical Research Letters*, 40, 5615–5620, doi:10.1002/2013GL057829.

**Potter, R. W. K.**, Kring, D. A., Collins, G. S., Kiefer, W. S., McGovern, P. J. (2013) Numerical modeling of the formation and structure of the Orientale impact basin, *Journal of Geophysical Research: Planets*, 118 (5), 963–979, doi:10.1002/jgre.20080.

**Potter, R. W. K.** and Collins, G. S. (2013) Numerical modeling of asteroid survivability and possible scenarios for the Morokweng crater-forming impact, *Meteoritics and Planetary Science*, 48 (5), 744–757, doi:10.1111/maps.12098.

**Potter, R. W. K.**, Kring, D. A., Collins, G. S., Kiefer, W. S., McGovern, P. J. (2012) Estimating transient crater size using the crustal annular bulge: Insights from numerical modeling of lunar basin-scale impacts, *Geophysical Research Letters*, 39, L18203, doi:10.1029/2012GL052981.

**Potter, R. W. K.**, Collins, G. S., Kiefer, W. S., McGovern, P. J., Kring, D. A. (2012) Constraining the size of the South Pole-Aitken basin impact, *Icarus*, 220, 730–743, doi:10.1016/j.icarus.2012.05.032.

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## MANUSCRIPTS IN REVISION

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Kring, D. A., Kramer, G. Y., **Potter, R. W. K.**, Collins, G. S., Interpreting the depth of origin of the Schrödinger peak ring and implications for other impact basins, submitted to *Nature Communications*.

Zhu, M.-H., Wünnemann, K., **Potter, R. W. K.**, Numerical modeling of the ejecta distribution and formation of the Orientale basin on the Moon, submitted to *Journal of Geophysical Research: Planets*.

Baker, D. M. H., Head, J. W., Collins, G. S., **Potter, R. W. K.**, The formation of peak-ring basins: Working hypotheses and path forward in using observations to constrain models of impact basin formation, submitted to *Icarus*.

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## BOOK CHAPTERS

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Donohue, P. H., Gallegos, Z. E., Hammond, N. P., **Potter, R. W. K.** (2012) Science concept 6: The Moon is an accessible laboratory for studying the impact process on planetary scales, In: *A Global Lunar Landing Site Study to Provide the Scientific Context for the Exploration of the Moon*, edited by Kring, D. A. and Durda, D. D., LPI Contribution #1694, Lunar and Planetary Institute, Houston, TX, pp. 333–412.

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## OTHER PUBLICATIONS

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**Potter, R. W. K.**, Hargitai, H., Öhman, T. (2014) Impact basin, In: *Encyclopedia of Planetary Landforms and Other Surface Features*, edited by Hargitai, H. and Kereszturi, A., Springer, New York, doi:10.1007/978-1-4614-9213-9\_15-2.

**Potter, R. W. K.** (2014) Degraded basin, In: *Encyclopedia of Planetary Landforms and Other Surface Features*, edited by Hargitai, H. and Kereszturi, A., Springer, New York, doi:10.1007/978-1-4614-9213-9\_107-2.

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## PhD THESIS

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**Potter, R. W. K.** (2012) Numerical modelling of basin-scale impact crater formation, *PhD Thesis*, Imperial College London, UK.

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## CONFERENCE AND WORKSHOP CONTRIBUTIONS

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### 2015

Head, J. W., Pieters, C., Scott, D., Johnson, B., **Potter, R. W. K.**, Hoffman, J., Carpenter, J., Foing, B., Zelenyi, L., Mitrofanov, I., Marov, M., Basilevsky, A., Ivanov, M., Jaumann, R., Xiao, L., Haruyama, J., Ohtake, M., Kumar, P. S., Aharonson, O. (2015) Exploration of planetary crusts: A human-robotic exploration design reference campaign to the Lunar Orientale Basin, *International Symposium on the Moon 2020–2030*, ESA/ESTEC, Noordwijk, The Netherlands.

**Potter, R. W. K.** and Head, J. W. (2015) Basin formation on Mercury and the Moon - the same or different? Insights from numerical modeling, *The Sixth Moscow Solar System Symposium*, Moscow, Russia (talk given by Head, J. W.).

**Potter, R. W. K.** and Head, J. W. (2015) Numerically modeling mercurian impacts: The formation of Caloris basin and the origin of its low-reflectance material, *Bridging the Gap III: Impact Cratering in Nature, Experiments, and Modeling*, University of Freiburg, Freiburg, Germany (talk) [[Abstract #1098](#)].

Collins, G. S., Baker, D. M. H., Head, J. W., **Potter, R. W. K.** (2015) Bridging the gap between observations and numerical models of peak-ring basin formation, *Bridging the Gap III: Impact Cratering in Nature, Experiments, and Modeling*, University of Freiburg, Freiburg, Germany [[Abstract #1019](#)].

**Potter, R. W. K.** and Head, J. W. (2015) Numerically modeling mega-scale lunar impact basins, *NASA Exploration Science Forum*, NASA Ames Research Center, CA ([talk](#)).

**Potter, R. W. K.** and Head, J. W. (2015) Mega-scale lunar impact basins: Investigating Procellarum-sized events, *6th Annual Lunar and Small Bodies Graduate Conference*, NASA Ames Research Center, CA (talk) [[Abstract](#)].

**Potter, R. W. K.** and Head, J. W. (2015) Investigating the formation and structure of Mercury's Caloris impact basin, *Lunar and Planetary Science Conference XLVI*, Houston, TX (poster) [[Abstract #1993](#)].

**Potter, R. W. K.**, Kring, D. A., Collins, G. S. (2015) Scaling of basin-sized impacts and implications for the Moon and early Earth, *Lunar and Planetary Science Conference XLVI*, Houston, TX (talk) [[Abstract #1952](#)].

Zhu, M.-H., Wünnemann, K., **Potter, R. W. K.** (2015) New estimates of the Orientale basin impactor size from modeling of the ejecta thickness distribution, *Lunar and Planetary Science Conference XLVI*, Houston, TX [[Abstract #1770](#)].

McGovern, P. J., **Potter, R. W. K.**, Collins, G. S., Kring, D. A., Grange, M. L., Nemchin, A. A. (2015) Pulses of magmatic movement triggered by the South Pole-Aitken basin impact, *Workshop on Early Solar System Impact Bombardment III*, Houston, TX [[Abstract #3027](#)].

**Potter, R. W. K.** and Kring, D. A. (2015) Testing the collisional erosion hypothesis for the Hadean Earth, *Workshop on the Early Solar System Impact Bombardment III*, Houston, TX (talk) [[Abstract #3010](#)].

Kring, D. A., McGovern, P. J., **Potter, R. W. K.**, Collins, G. S., Grange, M. L., Nemchin, A. A. (2015) Was an epoch of lunar magmatism triggered by the South Pole-Aitken basin impact? *Workshop on the Early Solar System Impact Bombardment III*, Houston, TX [[Abstract #3009](#)].

## 2014

**Potter, R. W. K.** and Head, J. W. (2014) Geologic observations and numerical modeling: A combined approach to understanding crater and basin formation and structure, *American Geophysical Union Fall Meeting*, San Francisco, CA (poster) [[Abstract #P13D-3850](#)].

Kiefer, W. S., McGovern, P. J., **Potter, R. W. K.**, Andrews-Hanna, J. C., Besserer, J., Collins, G. S., Head, J. W., Hurwitz, D. M., Miljković, K., Nimmo, F., Phillips, R. J., Smith, D. E., Soderblom, J. M., Taylor, G. J., Wieczorek, M. A., Zuber, M. T. (2014) The contribution of impact melt sheets to lunar impact basin gravity anomalies, *Lunar and Planetary Science Conference XLV*, Houston, TX [[Abstract #2831](#)].

**Potter, R. W. K.** and Kring, D. A. (2014) Collisional erosion: Consequences for the young Earth, *Lunar and Planetary Science Conference XLV*, Houston, TX (talk) [[Abstract #2230](#)].

## 2013

Kring, D. A., Kramer, G. Y., **Potter, R. W. K.** (2013) Interpreting the depth of origin of the Schrödinger peak ring and implications for other impact basins, *Large Meteorite Impacts and Planetary Evolution V*, Sudbury, ON, Canada [[Abstract #3069](#)].

Osinski, G. R., Ferrière, L., Kring, D. A., Anders, D., Armstrong, K., Baker, D., Bamberg, M., Beddingfield, C., Gaither, T., Harrison, T., Huber, M. S., Hurwitz, D., Jaret, S., Kramer, G., Kuriyama, Y., Lucas, M., Marion, C. L., Mercer, C., Mount, C., Neish, C., Nuhn, A., Ostrach, L., Pickersgill, A., Pilles, E., **Potter, R. W. K.**, Ryan, A., Sharp, M., Swartz, N., Thomson, O., Veto, M., Wielicki, M. M., Wright, S., Zanetti, M. (2013) Revisiting the distribution and properties of shatter cones at the Sudbury impact structure, Canada, *Large Meteorite Impacts and Planetary Evolution V*, Sudbury, ON, Canada [[Abstract #3061](#)].

**Potter, R. W. K.**, Kring, D. A., Collins, G. S., Kiefer, W. S., McGovern, P. J. (2013) Orientale basin: Formation processes and structure inferred from hydrocode modeling, *Large Meteorite Impacts and Planetary Evolution V*, Sudbury, ON, Canada (talk) [[Abstract #3026](#)].

Kiefer, W. S., **Potter, R. W. K.**, McGovern, P. J., Collins, G. S., Kring, D. A. (2013) Thermal evolution of lunar impact basins and implications for mascon formation, *Large Meteorite Impacts and Planetary Evolution V*, Sudbury, ON, Canada [[Abstract #3009](#)].

**Potter, R. W. K.**, Kring, D. A., Collins, G. S. (2013) Modeling the attenuation of structural uplift beneath large lunar craters, *NASA Lunar Science Forum*, virtual conference (talk) [Abstract].

**Potter, R. W. K.**, Cable, M. L., Cumbers, J., Gentry, D. M., Harrison, T. N., Naidu, S., Padovan, S., Parker, C. W., Reimuller, J., Shkolyar, S., Suer, T-A., Szalay, J. R., Trammell, H. J., Walker, C. C., Whitten, J. L., Budney, C. J. (2013) Flyby of Io with Repeat Encounters (FIRE): A New Frontiers mission designed to study the most volcanic body in the Solar System, *Lunar and Planetary Science Conference XLIV*, Houston, TX (poster) [Abstract #2874].

**Potter, R. W. K.**, Kring, D. A., Collins, G. S. (2013) The attenuation of structural uplift, with depth, beneath impact structures, *Lunar and Planetary Science Conference XLIV*, Houston, TX (talk) [Abstract #2802].

## 2012

Padovan, S., Cable, M. L., Cumbers, J., Gentry, D., Harrison, T. N., Naidu, S., Parker, C. W., **Potter, R. W. K.**, Reimuller, J., Shkolyar, S., Suer, T., Szalay, J. R., Trammell, H., Walker, C. C., Whitten, J. (2012) Flyby of Io with Repeat Encounters (FIRE): Designing a New Frontiers mission to study the most volcanic body in the solar system, *American Geophysical Union Fall Meeting*, San Francisco, CA [Abstract #P51A-2014].

**Potter, R. W. K.** and Collins, G. S. (2012) Asteroid survivability: The importance of asteroid shape and porosity and their possible influence on the Morokweng crater-forming impact, *American Geophysical Union Fall Meeting*, San Francisco, CA (poster) [Abstract #P11A-1799].

**Potter, R. W. K.**, Collins, G. S., Kiefer, W. S., Kring, D. A., McGovern, P. J. (2012) Lunar impact basins: A window into basin formation in the Solar System, *Royal Astronomical Society Specialist Discussion Meeting*, London, UK (poster).

Harrison, T. N., Szalay, J., Parker, C. W., **Potter, R. W. K.**, Trammell, H., Shkolyar, S., Suer, T., Cable, M. L., Cumbers, J., Gentry, D., Naidu, S., Padovan, S., Reimuller, J., Walker, C., Whitten, J. (2012) Scientific return of a dust analyzer at Io, *International workshop on instrumentation for planetary missions*, Greenbelt, MD [Abstract #1139].

Szalay, J., Suer, T., Cable, M. L., Cumbers, J., Gentry, D., Harrison, T., Naidu, S., Padovan, S., Parker, C. W., **Potter, R. W. K.**, Reimuller, J., Shkolyar, S., Trammell, H., Walker, C., Whitten J. (2012) NASA Planetary Science Summer School Mission to Io, *Io Workshop*, University of Colorado, Boulder, CO.

**Potter, R. W. K.**, Kring, D. A., Collins, G. S., Kiefer, W. S., McGovern, P. J. (2012) Numerical modeling of the Orientale basin-forming event, *5th Annual NASA Lunar Science Forum*, Moffett Field, CA (talk).

**Potter, R. W. K.**, Kring, D. A., Collins, G. S., Kiefer, W. S., McGovern, P. J. (2012) Orientale Basin: Modeling its formation, *3rd Annual Lunar Graduate Conference*, Moffett Field, CA (talk) [Abstract].

**Potter, R. W. K.**, Collins, G. S., Kiefer, W. S., McGovern, P. J., Kring, D. A. (2012) Further modeling of lunar multi-ring basin formation: Insights into thermal conditions during the lunar basin-forming epoch, *Lunar and Planetary Science Conference XLIII*, Houston, TX (talk) [Abstract #1383].

Kiefer, W. S., McGovern, P. J., **Potter, R. W. K.**, Collins, G. S., Kring, D. A. (2012) The collapse of super-isostasy: The thermal evolution of large lunar impact basins and a volcanic intrusion model for lunar mascon gravity anomalies, *Workshop on the Early Solar System Impact Bombardment II*, Houston, TX [Abstract #4026].

**Potter, R. W. K.**, Collins, G. S., Kiefer, W. S., McGovern, P. J., Kring, D. A. (2012) Thermal conditions during the lunar basin-forming epoch: Insights from the numerical modeling of lunar basin-forming impacts, *Workshop on the Early Solar System Impact Bombardment II*, Houston, TX (talk) [[Abstract #4009](#)].

## 2011

Kiefer, W. S., McGovern, P. J., **Potter, R. W. K.**, Collins, G. S., Kring, D. A. (2011) The collapse of super-isostasy: Volcanic intrusions as an alternative model for lunar mascon gravity anomalies, *American Geophysical Union Fall Meeting*, San Francisco, CA [[Abstract #P33G-02](#)].

**Potter, R. W. K.**, Collins, G. S., Kring, D. A., Kiefer, W. S., McGovern, P. J. (2011) Numerical modelling of lunar multi-ring basins, *British Geophysical Association Postgraduate Research in Progress Meeting*, University of Oxford, UK (talk).

**Potter, R. W. K.**, Collins, G. S., Kring, D. A., Kiefer, W. S., McGovern, P. J. (2011) How did they do that? Modelling the formation of the South Pole-Aitken asteroid impact basin, *Imperial College Graduate School of Engineering and Physical Sciences Students' Research Symposium*, Imperial College London, UK (poster).

Kiefer, W. S., **Potter, R. W. K.**, Collins, G. S., McGovern, P. J., Kring, D. A. (2011) Thermal evolution of large lunar basins: Implications for basin compensation and the duration of the lunar cataclysm, *Lunar and Planetary Science Conference XLII*, Houston, TX [[Abstract #2349](#)].

Gallegos, Z., Donohue, P., Hammond, N., **Potter, R. W. K.**, Kring, D. A. (2011) Maander Crater: A case study of a landing site designed to full-fill multiple NRC [2007] science objectives, *Lunar and Planetary Science Conference XLII*, Houston, TX [[Abstract #1958](#)].

Kring, D. A., Balcerski, J., Blair, D. M., Chojnacki, M., Donohue, P. H., Drummond, S. A., Garber, J. M., Hopkins, M., Huber, M. S., Jaret, S. J., Losiak, A., Maier, A., Mitchell, J., Ong, L., Ostrach, L. R., O'Sullivan, K. M., **Potter, R. W. K.**, Robbins, S., Shankar, B., Shea, E. K., Singer, K. N., Sori, M., Sturm, S., Willmes, M., Zanetti, M., Wittman, A. (2011) Asymmetrical distribution of impact ejected lithologies at Barringer Meteorite Crater (aka Meteor Crater), *Lunar and Planetary Science Conference XLII*, Houston, TX [[Abstract #1746](#)].

Kring, D. A., Balcerski, J., Blair, D. M., Chojnacki, M., Donohue, P. H., Drummond, S. A., Garber, J. M., Hopkins, M., Huber, M. S., Jaret, S. J., Losiak, A., Maier, A., Mitchell, J., Ong, L., Ostrach, L. R., O'Sullivan, K. M., **Potter, R. W. K.**, Robbins, S., Shankar, B., Shea, E. K., Singer, K. N., Sori, M., Sturm, S., Willmes, M., Zanetti, M., Wittman, A. (2011) Fold hinge in overturned Coconino sandstone and its structural displacement during the formation of Barringer Meteorite Crater (aka Meteor Crater), *Lunar and Planetary Science Conference XLII*, Houston, TX [[Abstract #1740](#)].

**Potter, R. W. K.**, Collins, G. S., Kring, D. A., Kiefer, W. S., McGovern, P. J. (2011) Numerical modeling of lunar multi-ring basins, *Lunar and Planetary Science Conference XLII*, Houston, TX (talk) [[Abstract #1452](#)].

**Potter, R. W. K.**, Donohue, P. H., Gallegos, Z. E., Hammond, N. P., Kring, D. A. (2011) Multi-ring basins: Where and how to best determine their structure, *Lunar and Planetary Science Conference XLII*, Houston, TX (poster) [[Abstract #1445](#)].

Donohue, P., **Potter, R. W. K.**, Gallegos, Z., Hammond, N., Neal, C. R., Kring, D. A. (2011) The importance of lunar sample return in determining the nature of ejecta, *The Importance of Solar System Sample Return Missions to the Future of Planetary Science*, Houston, TX [[Abstract #5035](#)].



## 2010

**Potter, R. W. K.**, Collins, G. S., Kring, D. A., Kiefer, W. S., McGovern, P. J. (2010) Numerical modelling of the South Pole-Aitken basin: Constraining impact magnitude, *8th Annual United Kingdom Planetary Forum Early Career Scientist's Meeting*, Royal Astronomical Society, London, UK (talk).

Collins, G. S., **Potter, R. W. K.**, Kring, D. A., Kiefer, W. S., McGovern, P. J. (2010) Modelling the South Pole-Aitken basin impact, *The Ries Crater, The Moon, and The Future of Human Space Exploration*, Nördlingen, Germany (poster) [[Abstract #7023](#)].

**Potter, R. W. K.**, Collins, G. S., Kring, D. A., Kiefer, W. S., McGovern, P. J. (2010) Constraining the size of the South Pole-Aitken basin impact, *Lunar and Planetary Science Conference XLI*, Houston, TX (talk) [[Abstract #1700](#)].

## 2009

**Potter, R. W. K.** and Collins, G. S. (2009) Hydrocode modelling of the formation of the South Pole-Aitken basin, *British Geophysical Association Postgraduate Research in Progress Meeting*, Imperial College London, UK (talk) [[Abstract booklet p.28](#)].

**Potter, R. W. K.**, Collins, G. S., Elbeshausen, D., Wünnemann, K. (2009) The effect of asteroid shape, velocity and target material on asteroid survivability, *Lunar and Planetary Science Conference XL*, Houston, TX (poster) [[Abstract #1610](#)].

## 2008

Collins, G. S. and **Potter, R. W. K.** (2008) Fighting fire with fire: Asteroid deflection by direct impact, *Royal Astronomical Society Specialist Discussion Meeting*, London, UK.

## 2007

**Potter, R. W. K.** and McPherron, R. (2007) A search for magnetic storms without substorms in the main phase, *Geospace Environment Modeling (GEM) Summer Workshop*, Midway, UT (poster).