

A sustainability science reading group

SASI is supporting a reading group in sustainability science for the academic year 2012-13. We plan to have 4 meetings in S1 and S2 followed by a workshop exploring the relevance of sustainability science for the University of St Andrews at the end of S2.

The SUGGESTED time for the group to meet is Friday from 1-3 in week 2, 5, 8 and 10 of S1 (concurrent with eating our lunch). The format of the sessions will be agreed by participants in the first session. The group is open to all interested staff and PhD students and will be open to MSc (Sustainable Development) students if there is space.

The aim for the group is to:

1. undertake a sustained investigation of a potentially relevant intellectual field which relates to sustainable development

Potential outcomes that might arise from this activity:

1. Develop a shared understanding of the nature and complexity of the field of sustainability science
2. Explore the relevance of sustainability science for teaching and research activities
3. Build skills in discussing papers and ideas in a group setting

Semester 1

First session

Kates, R.W., Clark, W.C., Corell, R., Hall, J.M., Jaeger, C.C., Lowe, I., McCarthy, J.J., Schellnhuber, H.J., Bolin, B., Dickson, N.M., Faucheux, S., Gallopin, G.C., Grubler, A., Huntley, B., Jäger, J., Jodha, N.S., Kasperson, R.E., Mabogunje, A., Matson, P., Mooney, H., Moore, B., O'Riordan, T., & Svedin, U. (2001). Sustainability Science. *Science* 292, 641-642.

Komiyama, H., & Takeuchi, K. (2006). Sustainability science: building a new discipline. *Sustainability Science* 1, 1-6.

Second session

Goeminne, G. (2011). Has science ever been normal? On the need and impossibility of a sustainability science. *Futures* 43, 627-636.

Third session

Kajikawa, Y. (2008). Research core and framework of sustainability science. *Sustainability Science* 3, 215-239.

Fourth session

Quental, N., Lourenço, J., & da Silva, F. (2011). Sustainability: characteristics and scientific roots. *Environment, Development and Sustainability* 13, 257-276.

Semester 2

Fifth session

Wiek A., Withycombe L., Redman C., (2011) Key competencies in sustainability: a reference framework for academic program development. *Sustainability Science* 6,203–218.

Sixth session

Kastenhofer, K., Bechtold, U., & Wilfing, H. (2011). Sustaining sustainability science: The role of established inter-disciplines. *Ecological Economics* 70, 835-843.

Seventh session

Jerneck, A., Olsson, L., Ness, B., Anderberg, S., Baier, M., Clark, E., Hickler, T., Hornborg, A., Kronsell, A., Lövbrand, E., & Persson, J. (2011). Structuring sustainability science. *Sustainability Science* 6, 69-82.

Eight session

Geels, F (2010), Ontologies, socio-technical transitions (to sustainability), and the multi-level perspective. *Research Policy*, 39, 495–510.

Symposium papers first pass (others will emerge over the year)

Müller, A. (2003). A flower in full blossom?: Ecological economics at the crossroads between normal and post-normal science. *Ecological Economics* 45, 19-27.

Miller, R., (forthcoming). Constructing sustainability science: emerging perspectives and research trajectories. *Sustain Science*