

## Publications & Presentations

(Education, Psychology and Economy, INK, Labor Parallele Prozesse)

### Published Articles

#### 2015

Siemsen, K.H., Siemsen, H. (2015a) John Snow and Pedagogy\_as\_Genesis. Masaryk University, Brno, in print.

Siemsen, K.H., Siemsen, H. (2015b) John Snow and the Culture\_of\_Learning. Masaryk University, Brno, in print.

Siemsen, H. (2015c) *Mach and the Origins of Gestalt Theory*. working paper.

Siemsen, H. (2015d) *The Genesis of Central Ideas of Ernst Mach*. working paper.

Siemsen, H. (2015e) *The Transformation of Mind*. working paper.

Siemsen, H. (2015f) *On the Origins of the Gestalt Concept*. Part I. working paper.

Siemsen, H., Reschke, Carl Henning (2015g) The Concept of Theory and the Economy of Thought. working paper.

#### 2014

Siemsen, H. (2014a) Ernst Mach: A Genetic Introduction to His Educational Theory and Pedagogy. In: Matthews, M. (ed.), *International Handbook of Research in History, Philosophy and Science Teaching*. Vol. III, Springer: Frankfurt (M.): 2329-2358.

Siemsen, H., Siemsen, K.H. (2014b) The Sensualism of Ernst Mach, Teaching Science. In: Valente, M., Rivera, J. (eds.), *Culturas Experimentais. Teorias, coisas e experiências*. Casal de Cambria: Caleidoscópio: 79-96.

Karl Hayo Siemsen, Joachim Schwarz, Hayo Siemsen (2014c, p. 263 – 288) Mathematische Bildung auf der Fährte der Reproduzierbarkeit. Sowie 2014d, p. 280 – 286 ein Nachtrag zum dritten Abschnitt: Mitverfasst von Dirk Rabe, Joachim Wiebe: Anschauliche Unterweisung mit Spuren von Gestalt. In: Gerd-Bodo von Carlsburg, Thomas Vogel (Hrsg./eds.), *Bildungswissenschaften und akademisches Selbstverständnis in einer globalisierten Welt*. Baltische Studien, Bd. 28; Lang, Frankfurt.

Siemsen, H. (2014e) *Popper Falsified. On the Empirical Blind Spot of Modern Philosophy*. working paper.

Siemsen et al. (2014f) *Finn-ished*. working paper.

#### 2013

Siemsen, H., Reschke, C. H. (2013a) Can one learn to think like Drucker? Lessons in personality and management education. *Management Research Review* 36/8: 767-787.

Siemsen, H. (2013b) Ernst Mach and George Sarton. History of science as metapsychical method. In: Pléh, C. et al. (eds.), *New Perspectives on the History of Cognitive Science*. Budapest: Akadémiai Kiadó, 201-212.

Siemsen, H. (2013c) Ernst Mach And George Sarton's successors: The Implicit Role Model of Teaching Science in USA and elsewhere. Part II. *Science & Education*, 22/5: 951-1000.

Siemsen, H. (2013d) Erkenntnistheoretische Grundlagen des finnischen PISA Erfolges und seine globale Übertragbarkeit. In: von Carlsburg, G.-B., *Bildungswissenschaft auf der Suche nach globaler Identität. Educational Sciences in Search of Global Identity*. Frankfurt (M.): Lang, 131-152.

Siemsen, K. H., Schumacher, W., Wiebe, J. & Siemsen H. (2013e) Dokumentation des Projektstudiums nach 10 Jahren, In: von Carlsburg, G.-B., *Bildungswissenschaft auf der Suche nach globaler Identität. Educational Sciences in Search of Global Identity*. Frankfurt (M.): Lang, 153-204.

Siemsen, K.H. (2013g) Learning by Gestalt. Journal der GTA, Gestalt Theory Vol. 35 No. 2. Krammer, Wien.

## 2012

Siemsen, K. H., Schumacher, W., Wiebe, J. & Siemsen, H. (2013f) The Project Study after 10 Years. Anale Seria Informatica Vol. X Fascicula II, Tibiscus University, Timisoara. Editora Mirton: 95 - 125, ISSN 1583-7165. Printout corr. Vol. XI, Fasc. I, 2013: 139f.

Siemsen, H. (2012a) Ernst Mach And George Sarton's successors: The Implicit Role Model of Teaching Science in USA and elsewhere. Part I. *Science & Education*, 21/4: 447-484.

Siemsen, K.H. (2012b) Learning by Gestalt. Talk held at the Symposium "100 Years of Gestalt Psychology" 28.-29.09.2012, Helsinki, Finland, downloadable under <http://www.lfs.fi/esitelmat/> (accessed 03.01.2013).

Siemsen, H. (2012c) Gnozeologická podstata finského úspěchu v projektu PISA. *Pro Fyziku* 5-6: 304-311.

Fischbach, J., Lee, J., Siemsen, H. (2012d) Was Projektmanager von Partys lernen können. *ProjektMagazin* 15/2012 online: [www.projektmagazin.de](http://www.projektmagazin.de).

## 2011

Siemsen, H. (2011a) Ernst Mach and the Epistemological Ideas Specific for Finnish Science Education. *Science & Education*, 20: 245-291.

Siemsen, H. (2011b) John T. Blackmore: Two Recent Trilogies on Ernst Mach. In: McGuinness, B. F. (ed.), *Friedrich Waismann. Causality and Logical Positivism*. Vienna Circle Institute Yearbook. Vol. 15, Springer: 311-321.

Siemsen, H. (2011c) Mach's Science Education, the PISA Study and Czech Science Education. In: Mizerova, A. (ed.), *Ernst Mach: Fyzika – Filosofie – Vzdělávání*, Brno: Masaryk University Press, 255-266.

Siemsen, H. (2011d) The Role of Instruments in Teaching Science: A Machian View. In: Heering, P. & Wittje, R. (eds.), *Learning by Doing: Experiments and Instruments in the History of Science Teaching*, Stuttgart: Steiner, 349-360.

Siemsen, H. & Siemsen, K. H. (2011e) The Sensualism of Ernst Mach, Teaching Science. Invited talk at the 3<sup>rd</sup> International Symposium in Philosophy of Science, University of Évora, 6<sup>th</sup>-7<sup>th</sup> of May 2011. Proceedings upcoming.

## 2010

Siemsen, H. (2010a) Intuition in the Scientific Process and the Intuitive “Error“ of Science. In: Columbus, A. M. (Ed.) *Advances in Psychology Research*. Vol. 72. Nova Science, Hauppauge, 1-62.

Siemsen, H. (2010b) Alfred Binet and Ernst Mach. Similarities, Differences and Influences. Conference paper November 2007, and University of Nancy, *Revue Recherches & Éducatives*, 3/2010: 352-403.

Siemsen, H. (2010c) The Mach-Planck debate revisited: Democratization of science or elite knowledge? *Public Understanding of Science*, 19/3: 293-310.

Siemsen, H. (2010d) Erkenntnis-theory and Science Education – An intuitive contribution to the Festschrift for the 85<sup>th</sup> birthday of Solomon Marcus. In: Spandonide, H., Paun, G. (Eds.) *Meetings with Solomon Marcus to his 85<sup>th</sup> Birthday*. Bucuresti: Editura Spandugino. Bucuresti, ISBN 978-606-92456-1-3

Siemsen, H. (2010e) Die psychophysiologische Fundierung des Analogiebegriffs bei Ernst Mach. In: Hentschel, K. (Ed.), *Analogien in Naturwissenschaften, Medizin und Technik*. Stuttgart: Acta Historica Leopoldina: 279-308.

Siemsen, H. (2010f) The Concept of Innovation. Schumpeter Revisited. *Schumpeter Conference 2010*, conference proceedings.

Siemsen, H. (2010 g) Mach and the Origins of Gestalt Theory. Working paper.

## 2009

Siemsen, H., Siemsen, K.H. (2009a) Resettling the Thoughts of Ernst Mach and the Vienna Circle to Europe – The cases of Finland and Germany. *Science & Education* 18 (3): 299-323.

Siemsen, H. (2009b) Conceptual Adaptation: Bridging Spatial and Temporal Relations by Cognitive Wormholes. In: Albert, M. et al. (Eds.): *Transnational Political Spaces. Agents – Structures – Encounters*. Frankfurt (M.): Campus.

## 2008

Siemsen, H. (2008a) Elite für Alle – Der Bildungsvisionär Alexander Israel Wittenberg. *Kultur & Technik*, Vol 1/2008.

Siemsen, H., Siemsen K. H. (2008b) Ideas of Ernst Mach teaching science. In Rusu, C. (ed.), *Quality Management in Higher Education*, Proceedings of the 5<sup>th</sup> International Seminar on the Quality Management in Higher Education, Casa de Editură Venus, Iași.

## 2006 und zuvor

Siemsen K.H. (2006) Ernst Mach, Teacher of Science. In Rusu, C. (ed.), *Quality Management in Higher Education*, Proceedings of the 4<sup>th</sup> International Seminar on the Quality Management in Higher Education, Konferenzbericht, Sinaia, Romania 9-10. Juni 2006.

Marian, S., Siemsen, K.H., Rusu, C. Education in a free society. In Rusu, C. (ed.), *Quality Management in Higher Education*, Proceedings of the 4<sup>th</sup> International Seminar on the Quality Management in Higher Education, Konferenzbericht, Sinaia, Romania 9-10. Juni 2006.

Agafitei, G. I. Some Hints on Teaching like Mach and W. James. In Rusu, C. (ed.), *Quality Management in Higher Education*, Proceedings of the 4<sup>th</sup> International Seminar on the Quality Management in Higher Education, Konferenzbericht, Sinaia, Romania 9-10. Juni 2006.

Siemsen, H. (2006) Cognition as Micro-Foundation of Innovation: The Philosophical Background. *GLOBELICS Academy, Lisbon*, May 2006, internet publication.

Siemsen, H. (2005) Cognition as Micro-Foundation of Evolutionary Innovation Systems. *Conference: "Realities and Economic Development Actions in the framework of Romania's EU Integration"*, Iași, October 2005.

Siemsen, H. (2005) Initial Problems in the Establishment of Technology and Innovation Brokerage Structures in Emerging Markets – An Applied Case from Mexico. *Druid Conference, Copenhagen*, June 2005.

Siemsen, K.H. (2004) Historical Genesis, Enkulturation and Hybridity. A Comparison of the Perspectives of Ernst Mach, Jerome S. Bruner and Michael Cole on Learning. In: Ioan Andone (Ed.) *InfoBusiness`2004*. Al Cuza University, Iasi, Romania. PIM Publishing House, Iasi.

Siemsen, H. (2004) Implementation of Cognition-Oriented Project Study at Universities for the Example of the University of Applied Sciences in Saarland (HTW), Germany. In Rusu, C. (ed.), *Quality Management in Higher Education*, Proceedings of the 3<sup>rd</sup> International Seminar on the Quality Management in Higher Education, Casa de Editură Venus, Iași.

Siemsen, H. (2003) From Coal Mining to Automotive Clusters in 20 years – A Case Study of Universities as the Motor of Change in the Industrial Structure of Saarland. In Rusu, C. (ed.), *Management of Technological Changes*, Proceedings of the 3<sup>rd</sup> International Conference on the Management of Technological Changes, Technical University of Crete, Chania.

## **Books**

Siemsen H. (2006) Applied research and technology transfer for globalisation development of emerging markets. Providing a cognitive base for building innovation systems. Dissertation, A.I. Cuza University, Iasi, Romania

Gessner, P., Gerz, C., Siemsen, H. (2000) Focus Chile. Publication of Global Strategy Series, in cooperation with the German-Chilean Chamber of Industry and Commerce, PROCHILE – Ministry of Foreign Affairs, CORFO and the Swiss Center for Trade Promotion (OSEC).

Fielitz, M., Gerz, C., Gessner, P., Siemsen, H. (2000) „Checkliste Lateinamerika“ – Ein Leitfaden zum Markteinstieg in lateinamerikanische Märkte (Checklist Latin America – A guide for the Market Access in Latin American Markets). Rationalisierungs- und Innovationszentrum der Deutschen Wirtschaft e.V. (RKW – Center for Rationalization and Innovation of German Business), Eschborn.

Siemsen, H., Gerz, C. (1998) Focus Mexiko - Visionen und Tips für die intelligente Markterschließung (Visions and Tips for the Comprehensive Market Access). Publication of Global Strategy Series, in cooperation with German Investment and Development Company (DEG), the German-Mexican Chamber of Industry and Commerce (CAMEXA) and the Swiss Center for Trade Promotion (OSEC), Cologne.

Siemsen, H., Geissbauer, R. (1997) Investing in China, India and Indonesia. Joint publication of Roland Berger & Partners GmbH, the Association of German Chambers of Industry and Commerce (DIHT) and the Asia-Pacific Council of German Business (APA), Munich.

Siemsen, H., Geissbauer, R. (1996) Direktinvestitionen in China, Indien und Indonesien. Joint publication of the Association of German Chambers of Industry and Commerce (DIHT) and the Asia-Pacific Council of German Business (APA), Bonn.

Geissbauer, R., Siemsen, H. (1995) Strategies for the Indian Market. Joint publication of the Indo-German Chamber of Commerce and the German Investment and Development Company (DEG), Duesseldorf and Cologne. Also published in German.

Siemsen, K. H. (1981). *Genetisch-adaptativ aufgebauter rechnergestützter Kleingruppenunterricht. Begründungen für einen genetischen Unterricht*. Frankfurt: Lang. Europ. Hochschulschriften R. 11, Bd. 99, ISBN 3-8204-6127-2.

## **Working and Submitted Papers**

Siemsen, H. (2011) Ernst Mach And George Sarton's successors: The Implicit Role Model of Teaching Science in USA and elsewhere. *Science & Education* (second round of R&R).

Siemens, H. (2011) Methodological Manifolds: *Erkenntnistheorie* and the Heterodox Approach. *Journal of Pluralism and Economics Education* (second round of R&R).

Siemens, H. (2011) Historiography, Method and *Erkenntnis*-theory: What Is General in Science? *Organon*, Polish Academy of Science (submitted).

Siemens, H. (2011) The Concept of Theory and the Economy of Thought. Manuscript in preparation for *Academy of Management Review*.

Siemens, H. (2011) Methodological Manifolds: The Concepts of Evolution and History as Time Layers. presented at EAEPE 2010, manuscript in preparation.

Siemens, H. & Reschke, C. H. (2011) The *Erkenntnis*-theoretical Psychology of the Firm: Integrating the Psychical with Action. Presented at the Theory of the Firm Network, 2010, manuscript in preparation.

Siemens, H. (2011) Ernst Mach and the “Method” of Carl Menger: The Psychophysics of Economics and the Social Sciences. presented at EAEPE 2010, manuscript in preparation for *Philosophy of Economics*.

Siemens, H. & Reschke, C. H. (2011) The General Idea of Organizational Coordination – Gestalt, Individual Action and Evolutionary Transformation. Manuscript in preparation for *Administrative Science Quarterly*.

Siemens, H. (2011) Erkenntnistheoretische Grundlagen des finnischen PISA-Erfolgs. Manuscript.

### **Conference Presentations**

Siemens, H. & Reschke, C. H. (2011) Reorganizing Syntheses of Empirical Meanings. Learning to Live With Evolutionary Learning. European Group of Organizational Science (EGOS), University of Gothenburg, July 2011.

Siemens, H. (2011) Countering the Growing Inconsistencies in Science Education by Taking a Step Back to Institutionalize Ernst Mach's Teaching Ideas. International History and Philosophy of Science Teaching Group, University of Thessaloniki, July 2011.

Siemens, H. & Reschke, C. H. (2010) The *Erkenntnis*-theoretical Psychology of the Firm: Integrating the Psychical with Action. European Theory of the Firm Network, University of Amsterdam, August 2010.

Siemens, H. (2010) Historiography, Method and *Erkenntnis*-theory: What Is General in Science? European Society for the History of Science, University of Barcelona, November 2010.

Siemens, H. (2010) Ernst Mach and the “Method” of Carl Menger: The Psychophysics of Economics and the Social Sciences. European Association of Evolutionary and Political Economy (EAEPE), University of Bordeaux, October 2010.

Siemens, H. (2010) Methodological Manifolds: The Concepts of Evolution and History as Time Layers. European Association of Evolutionary and Political Economy (EAEPE), University of Bordeaux, October 2010.

Siemens, H. (2010) Methodological Manifolds: Erkenntnistheorie and the Heterodox Approach. Association for Heterodox Economics, University of Bordeaux, July 2010.

Siemens, H. (2010) The Concept of Innovation. Schumpeter Revisited. *Schumpeter Society*, University of Aalborg, June 2010.

Siemens, H. (2009) Ernst Mach's Epistemology and Its Influences on Finnish Science Teaching. Nordic Symposium on Philosophy and History of Science in Science Education, University of Helsinki, October 2009.

Siemens, H. (2009) Ernst Mach and George Sarton. The Genesis of Ideas in the History of Science. International Congress of History of Science and Technology (ICHST), University of Budapest, July 2009.

Siemens, H. (2009) Genetic Epistemology in Finnish Science Teaching. International History and Philosophy of Science Teaching Group, Notre Dame University, June 2009.

Siemens, H. (2009). The Genesis of the "Second Vienna School of Medicine" and Ernst Mach's thoughts. Talk held at the summer school of the Institute Vienna Circle, 19.03.2009, Vienna, unpublished.

Siemens, H. (2008) The Epistemic Influences of Physics on Medicine in 19<sup>th</sup> Century Vienna. VISU Summer Course Vienna Circle Institute, University of Vienna, July 2008.

Siemens, H. (2007) Machian Monism as Evolutionary Epistemology of Science. VISU Summer Course Vienna Circle Institute, University of Vienna, July 2007.

Siemens, H. (2007) On the Philosophical and Cultural Background of the Finnish Education System. The Vienna Circle in the Nordic Countries, Vienna Circle Conference, Helsinki Collegium of Advanced Studies, September 2007.

Siemens, H. (2006) Cognition as Micro-Foundation of Innovation: Ernst Mach's Cognitive Theory. Max Planck Institute of Economics, PhD Workshop: Evolutionary Economics, Jena, March 2006.

Siemens, H. (2006) Cognition as Micro-Foundation of Innovation. GLOBELICS Academy, University of Lisbon.

Siemens, H. (2005) The Cultural Impact of Cognitive Innovation Genesis in an Evolutionary Economical Context. Buchenbach Workshop, Buchenbach, October 2005.

## **Invited Lectures**

Siemens, H. “Mach's *Erkenntnis*-psychological Synthesis of Physics and Mathematics”, Mazaryk University, Brno, CZ, October 2010.

Siemens, H. “Mach's Monistic Origin of Mathematics and Psychophysics”, Mazaryk University, Brno, CZ, October 2010.

Siemens, H. “Mach's *Erkenntnis*-psychological Synthesis of Physics and Mathematics”, Charles University, Prague, department of theoretical physics, October 2010.

Siemens, H. “Ernst Mach and the Origins of Mathematics”, Mazaryk University, Brno, CZ, November 2009.

Siemens, H. “Ernst Mach's Epistemology and Its Influence on Finnish Science Teaching”, University of Helsinki, Summer University of Science Education Unit, July 2008.

Siemens, H. “Ernst Machs Erkenntnistheorie: Begriffsbildung als Anpassungsprozess”, University of Tübingen, June 2008.

Siemens, H. “Machian Epistemology and (the Evolution of) Physical Concepts”, Charles University, Prague, department of theoretical physics, March 2008.

Siemens, H. “The Psychological Epistemology of Ernst Mach”, Charles University, Department of Theoretical Physics, March 2008.