

# Three day **Systematic Review Workshop**

## **Leuven, Belgium**

### **June 7-8-9, 2010**

The Belgian Campbell Group organizes a workshop designed to provide faculty, PhD, doctoral students, and other researchers in the area of Educational and Behavioral Sciences with the fundamental background and skills required to conduct a systematic review of research regarding treatments, interventions, therapies, instruction or experiences.

#### **Program:**

Contents Day 1 (9.00 am-4.00 pm):

- 9:00 Welcome and Overview, Introduction of Speakers
- 9:15 Introduction to Systematic Reviews and Meta-analysis (Karin Hannes)
  - Role and Purpose of Systematic Reviews
  - Selecting a Review Topic
  - Registering a Title and Conducting a Review Through Cochrane or Campbell
- 10:15 Break
- 10:30 Protocol Development 1 (Chad Nye and Oliver Wendt)
  - Learn Information Retrieval Strategies
  - Developing a Coding Form
- 12:00 Lunch Break
- 13:00 Protocol Development 2 (Oliver Wendt and Chad Nye)
  - Quality Assessment Standards
  - Data Extraction
- 14:15 Break
- 14:30 Statistical Analysis Overview (Chad Nye and Oliver Wendt)
  - Basic Effect Size Calculations for Group Designed Studies
- 15:30 Questions and Discussion
- 16:00 Adjourn

Contents Day 2 (9.00 am-4.00 pm):

- 9:00 Conducting the Analyses for Group Designed Studies 1 (Wim Van den Noortgate)
  - Introduction to meta-analysis
  - Synthesizing Effects Sizes
  - Publication Bias Analysis
  - Demonstration Comprehensive Meta-analysis (CMA) software
- 10:30 Break
- 10:45 Conducting the Analyses for Group Designed Studies 2 (Wim Van den Noortgate)

- Heterogeneity Analysis
- Sensitivity Analysis
- Demonstration Comprehensive Meta-analysis (CMA) software

12:00 Lunch Break

13:00 Conducting the Analyses for Single Subject Design Studies 1 (Oliver Wendt)

- Effect Size Metrics for Behavior Increase and Behavior Reduction Data
- Regression- versus Non-Regression-based Procedures

14:00 Break

14:15 Conducting the Analyses for Single Subject Design Studies 2 (Oliver Wendt and Wim Van den Noortgate)

- Applications of Hierarchical Linear Modeling
- Statistical Analysis of Effect Sizes from Single Subject Research Designs

15:15 Reporting and Interpreting Final Results (Oliver Wendt and Chad Nye)

15:45 Questions and Discussion

16:00 Adjourn

Contents Day 3 (9.00 am-3.00 pm)

9:00 Introducing Qualitative Evidence synthesis (QES) (Karin Hannes)

- Role and potential benefits of QES
- Overview of commonly used QES methods
- The meta-aggregative approach to synthesis

10:00 Quality Assessment of Qualitative Research (Karin Hannes)

- Overview and Comparison of critical appraisal instruments

10:30 Break

10:45 Workshop critical appraisal (Karin Hannes)

12:15 Lunch Break

13:15 Introduction to software program QARI (online and freely available) (Karin Hannes)

15:00 Adjourn

In between the sessions, participants will have the opportunity to closely interact with instructors and other participants, and to receive feedback on individual projects, questions and ideas. Workshops are available for the qualitative synthesis part.

The course will be conducted in English. Participants who follow the quantitative part (day 1 and 2) should have a basic background in statistical concepts and research design (e.g., 1 course in each). While particular experience in meta-analysis is helpful, it is not a prerequisite for participating in this course event. Participants who subscribe for day 3 are expected to have a basic knowledge of qualitative research. They should be able to understand original research papers. The content of the course will focus on the field of education and behavioral sciences, though the principles are applicable to other disciplines.

## **Instructors**

**Karin Hannes** is Doctor-Assistant at the Centre for Methodology of Educational Research in the Katholieke Universiteit Leuven, where she teaches research methodology to undergraduates. Dr. Hannes has been teaching Evidence-Based Practice and Systematic Review courses in the public health and medical field for a decade and recently changed her focus to education. She is a founder of the Belgian Campbell Group, co-convenor of the Cochrane Qualitative Research Group, co-author of the Cochrane Handbook for systematic reviews of effectiveness and co-chair of the Campbell Process and Implementation Methods Group. She specializes in qualitative evidence synthesis.

**Chad Nye** is Professor of Communication Sciences and Disorders at the University of Central Florida where he is the Executive Director of the Center for Autism & Related Disabilities. He is currently a Co-Chair and Co-Editor of the Campbell Collaboration Education Coordinating Group and has been the reviewer or co-reviewer on several reviews published by both the Campbell Collaboration and the Cochrane Collaboration.

**Wim Van den Noortgate** is Associate Professor at the Faculty of Psychology and Educational Sciences from the Katholieke Universiteit Leuven. He teaches methodological and statistical courses at this faculty and at the Faculty of Sciences, including a course on meta-analysis. Major research interests and publications are in the field of multilevel analysis and meta-analysis. Besides meta-analyses in the behavioural sciences, published work includes methodological papers on the use of multilevel models for meta-analyses. He is one of the founders of the Belgian Campbell Group.

**Oliver Wendt** is Assistant Professor of Special Education, and Speech, Language, and Hearing Sciences at Purdue University. He teaches graduate courses on assistive technology, autism spectrum disorders, severe disabilities and single-subject research methods. Dr. Wendt has conducted several systematic reviews and meta-analyses of single-subject experiments and is currently investigating non-regression-based procedures for effect size calculations in single-subject research. He is an active member in the Education Group and the Methods Group of the Campbell Collaboration and serves as chair of the Campbell Special Education Subgroup.

## Location

Department of Education, Katholieke Universiteit Leuven, Leuven (nearby the railway station), Belgium  
Looking for a place to stay? Check [www.leuven.be/en/tourism/staying-over/](http://www.leuven.be/en/tourism/staying-over/)

## Subscription

Registration Fee:

€ 250 for the three day program on June 7-8-9 (including lunches, coffee and tea).

€ 200 for the two day program on June 7-8 (including lunches, coffee and tea).

€ 75 for the qualitative synthesis part on June 9 (including lunches, coffee and tea).

Register by sending the subscription form before May 6, 2010

By mail: Bartel.Wilms@ped.kuleuven.be

By fax: +32 (0)16 32 59 34

By post: Belgian Campbell Group, CMPO Katholieke Universiteit Leuven, A. Vesaliusstraat 2, box 3762, 3000 Leuven, Belgium

Please indicate whether you need an invoice to proceed with payment.

After registering, you will get more information about the exact location and payment of the fee.

Important:

It is not possible to register for any other combination than the possibilities mentioned above (registration fee).

Cancellation policy: No cancellation is accepted after May 31, 2010

All registrations must be paid on May 31, 2010

**More information**

about the Belgian Campbell Group: [www.campbell-collaboration.be](http://www.campbell-collaboration.be)

about the international Campbell Collaboration: [www.campbellcollaboration.org](http://www.campbellcollaboration.org)

**Subscription form**

Systematic Review Workshop Leuven – June 7-8-9, 2010

Belgian Campbell Group in collaboration with the Centre for Methodology of Educational Research, KULeuven

Name: .....

Address:

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Telephone: .....

E-mail: .....

Institute: .....

Department: .....

Invoice?       Yes     No

I wish to register for:

the three day program on June 7-8-9 (250 euro)

the two day program on June 7-8 (200 euro)

the one day program on qualitative evidence synthesis on June 9 (75 euro)

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Instructions for payment will follow shortly after.