

Interuniversitäres Forschungskolloquium Techno-Ökonomie



Research Seminar

**A seminar on academic
research skills for post-
graduates, researchers and
professors**

Date: 5./6.7.2017



Lecturer

Prof. Dr. Steve Quarrie started his research career at the **University of Cambridge** and has been a research scientist for nearly 50 years all over Europe. For much of his UK-based research career he managed multi-partner international consortia of researchers, and has published his research in many of the leading journals in the plant sciences. His papers have been cited more than **2.000 times**.

He teaches general **research skills** to PhD students, including modules on good quality research and scientific writing, and for many years has given training courses to researchers around Europe on aspects of general research skills.

Feedback questionnaires from previous courses give average participant assessments of typically over 4.7/5.

Around **1600 scientists** have attended the courses so far (e. g. from UK, Italy, Austria, Slovenia, Serbia, Montenegro, Macedonia, Bosnia, Poland, Czech Republic).

Fee and Registration

The participation fee is 200 EUR per person. The registration is open from now until May 19th 2017. The number of participants is limited to the max. of 30 persons.

The “first pay – first serve” principle will be applied. Payment is due right after registration for this seminar and is managed by the office of the Institute of Business Economics and Industrial Sociology at TU Graz: bwlooffice@tugraz.at

Venue

TU Graz
IIM- Seminar room
NT04074
Kopernikusgasse 24
8010 Graz
4th-Floor

Accommodation

Hotel Gollner**** is located in the center of Graz, only a few minutes from the main tourist sights. For members of the „TÖF-Group“ and TU Graz the hotel offers special prices. The cost for accommodation is not covered in the participation fee and must be organized independently by each participant.

Organisation

Institute of Business Economics and Industrial Sociology
Kopernikusgasse 24/II
A-8010 Graz
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For any questions please do not hesitate and contact Ms Amila Omazic amila.omazic@tugraz.at

Goal of this Seminar

Understand...

- ...what the objective of research should be
- ...principles of good experimental design
- ...the importance of considering all the factors
- ...the importance of thinking before doing
- ...that papers must have international interest
- ...the requirements for different types of papers

Learn...

- ...how to reduce sources of error
- ...how to follow journal instructions
- ...how to present information and results logically
- ...how to improve your text

Appreciate the importance of data quality control

Recognise when you have good quality science

Target Group

The target group of this seminar are PhD Students, researchers and Professors, who are interested in good quality research.

Schedule

Day 1 July 5th 2017 (9 am to 6 pm)

Introduction to the seminar

- Description of the seminar
- Research philosophy
- Learning outcomes

Good quality research

- Looking for the truth - Considering all the factors
- Hypothesis testing
- The research cycle & The research pyramid
- Principles of experimental design
- The Null Hypothesis - Reducing the Errors
- Data quality control

Scientific writing

- Recognizing whether you have good quality science
- Different types of research papers, impact factors and SNIPs
- Selecting a suitable journal incl. open access and online journals
- Journal instructions for authors
- "Once upon a time ... they all lived happily ever after"
- The abstract, recommendations for introduction, materials and methods, results, discussion
- Examples of data presentation
- Fraud and plagiarism
- Improving the text, and the English
- The refereeing process

Day 2 July 6th 2017 (9 am to 6 pm)

Writing PhD project proposals

- Understanding the philosophy for success - Learning how to be competitive
- How to convert a project idea into a proposal
- Collecting all the relevant information
- How to put a consortium together to do the work
- Learning how to interpret and implement the instructions
- How to support statements with the evidence
- Ensuring that enough details are given
- Ensuring consistency in what is written
- Aspect of project management
- Typical budget requirements
- Ensuring project impact and sustainability
- Essential points to remember
- A group exercise to compare proposal abstracts

Presentation skills

- Conferences as opportunities to have impact on scientists and develop networks
- Points to consider for posters, pros and cons of different poster styles
- Examples of posters
- How to put together a PowerPoint presentation
- Preparing what to show, how to show it, the environment beforehand