



CERIES

Tohoku University Electro-Related Departments
Global COE Program

Center of Education and Research for Information Electronics Systems

2nd Global COE Seminar for English

Theme:

SCIENTIFIC PUBLISHING

How to Write a Good Scientific Paper and Submit It Successfully

Lecture:

Dr. Habil. Claus Ascheron

(Executive Editor Physics Springer-Verlag)

Date/Time:

April 15 (FRI)

9:00 ~ 12:00

Introduction

13:00 ~ 16:00

Practical Exercises

Place:

Room 204, 2F, Research Building No.2

- Electrical, Information, and Physics Engineering -

Outline:

Part I of the course is a basic lecture.

This lecture will be given by a former Professor of Kyoto University and a physics editor of Springer-Verlag, one of the world-wide leading international publishing companies.



A careful introduction to scientific publishing is given together with detailed advice for researchers and advanced students on how to prepare good scientific papers. This instruction is also based on personal experience with the approach to scientific publishing in different countries gained as a visiting professor at various universities, in a two years' stay in Japan as a Professor of Kyoto University, e.g. The topics discussed will be:

- ✚ Why is scientific publishing necessary?
- ✚ How important is scientific publishing for your academic career?
- ✚ Types of scientific publications
- ✚ Contents of scientific publications
- ✚ Steps to plan a scientific publication
- ✚ Writing style of scientific publications (short notes, original papers, review papers, books)
- ✚ Importance of proper references
- ✚ Structure of a scientific paper
- ✚ Survey of most appropriate scientific journals
- ✚ Problems of submission and acceptance of scientific papers
- ✚ Public and political influence on scientific publications

Part II of the course is practical exercises.

After having discussed these general aspects, the technical details of preparing scientific publications will be taught.

There will be the opportunity to analyse and discuss publications of the attendees of the course and give detailed advice on improving the style. Every attendee should submit 1 or 2 typical publications. A selection of typical publications will be discussed. These publications should be critically read by the attendees before the course.

Critical reading should be done by having the following aspects in mind:

- ✚ Justifies the scientific content of the paper the publication?
- ✚ Is the discussion appropriate and understandable?
- ✚ Is the style good?
- ✚ Is the information of the figures appropriately commented in the text?
- ✚ Is the structure of the publication in the appropriate style?
 - (i) Introduction
 - (ii) Experiment/Theoretical Basis
 - (iii) Results and discussion, or: results, discussion
 - (iv) Summary/conclusions: Is this what is called conclusions really conclusions? Or other appropriate style?
- ✚ Quality of the figures
 - (i) Information content
 - (ii) Size
 - (iii) Strength of lines
 - (iv) Size of characters
 - (v) Optical design,
- ✚ References
 - (i) Appropriate and important references
 - (ii) Enough references?
 - (iii) Style of citing
 - (iv) Own references
- ✚ Quality of the English