

出國報告（出國類別：研究）

赴德國參加  
世界性影像造影與精神醫學

服務機關：精神部

姓名職稱：周元華 主任

派赴國家：德國

出國期間：97.09.09 - 97.09.15

報告日期：97.09.13

## 摘要

應邀參加 97 年 9 月 10 日至 97 年 9 月 13 日於德國法蘭克福所舉辦之世界腦影像學於精神科研究大會，在未抵達前由於投稿時要求為海報展示，因此純粹以觀摩的心態參與此一盛會。然而當抵達時被大會臨時通知筆者的部份為口頭演講，因此立刻重新製作幻燈片以進行口頭演講，報告筆者過去一年中在台灣對於躁鬱症腦部造影之研究成果。與會人員對於筆者的研究工作均留下深刻的印象，並多次發問。經過三天的與會討論，更加了解了歐洲研究同好之研究成果，同時也呈現台灣的研究成果，讓歐洲人了解到台灣的研究成果並不比外國差，亦與德國法蘭克福大學及柏林大學開始合作計劃，希望進一步的提高台灣的研究水準，而於 97 年 9 月 13 日啟程返國。

未來在台灣國內的研究整合極為重要，在國外的會議中發現國外的研究之所以進行順利及快速，其合作無間及團體行動至為重要。因此應加強各研究團隊間之合作。

## 關鍵字

單光子造影、血清素轉運器、躁鬱症。

## 目的

筆者於 97 年 9 月 10 日至 13 日赴德國法蘭克福參加世界腦影像學於精神科研究之大會，並且於大會發表口頭報告筆者過去一年中對於躁鬱症腦部造影之研究成果。

## 過程

筆者於 9 月 9 日抵達法蘭克福，在未抵達前由於筆者投稿時要求為海報展示，因

此純粹以觀摩的心態參與此一盛會。然而當抵達時被大會臨時通知筆者的部份為口頭演講，因此筆者立刻重新製作幻燈片以進行口頭演講，與會人員對於筆者的研究工作均留下深刻的印象，並多次發問（演講時之照片如附件）。在經過三天的與會討論，更加了解了歐洲研究同好之研究成果，而於 9 月 13 日啓程返國。

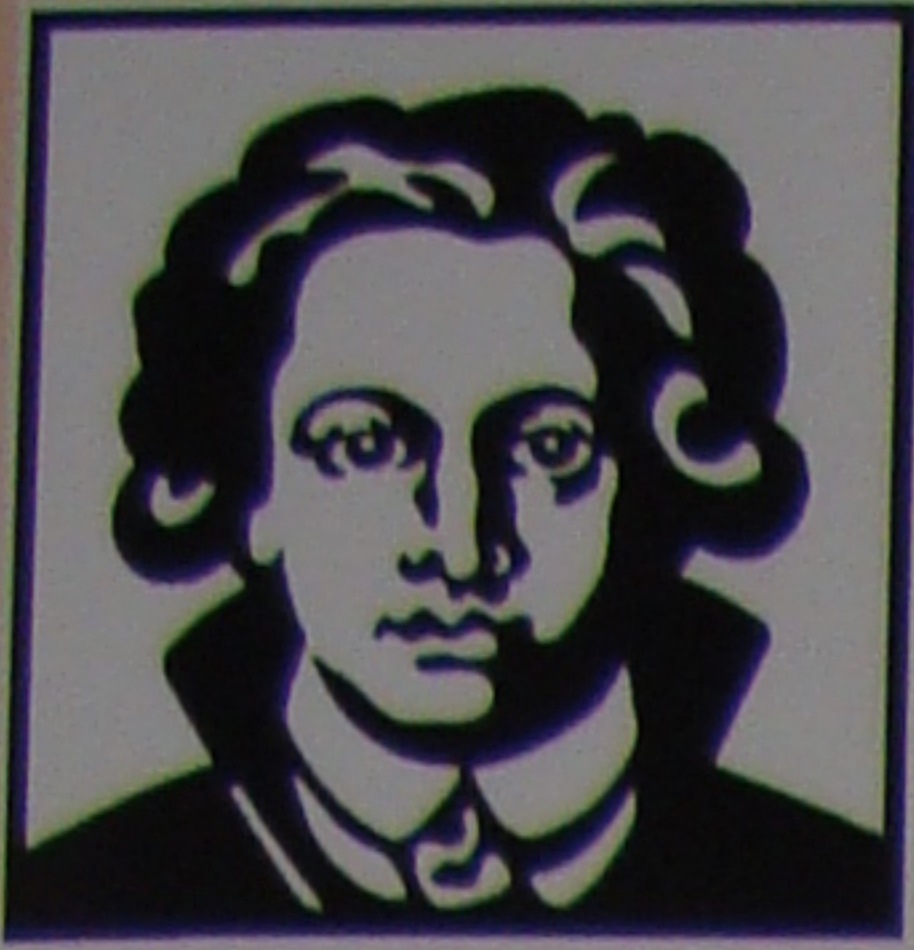
## 心得

此次參加會議，最重要的成果及心得為：

1. 呈現台灣的研究成果，並且讓歐洲人了解到台灣的研究成果並不比外國差。
2. 同時與德國法蘭克福大學及柏林大學開始合作計劃，希望進一步的提高台灣的研究水準。

## 建議事項

未來在台灣國內的研究整合極為重要，在國外的會議中發現國外的研究之所以進行順利及快速，其合作無間及團體行動至為重要。因此應加強各研究團隊間之合作。



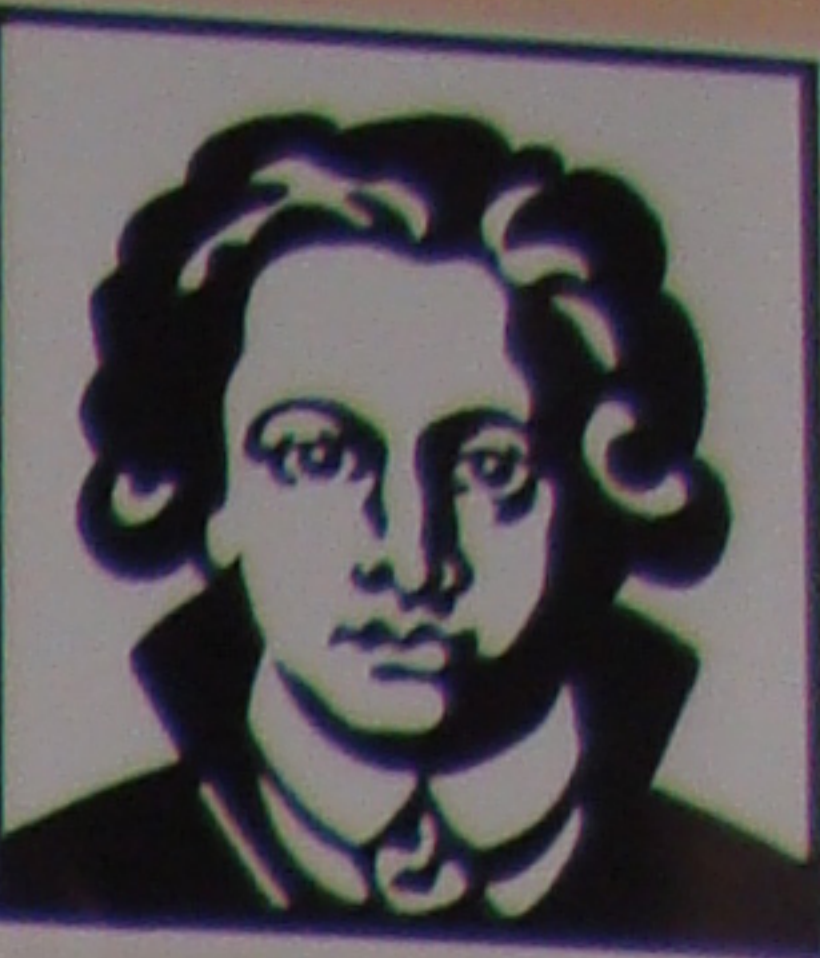
5th JOINT CONFERENCE OF

ISNIP

INTERNATIONAL SOCIETY FOR NEUROIMAGING IN PSYCHIATRY

ECNS

EEG & CLINICAL NEUROSCIENCE SOCIETY



**Wednesday**

10.09.2008

**Opening ceremony**

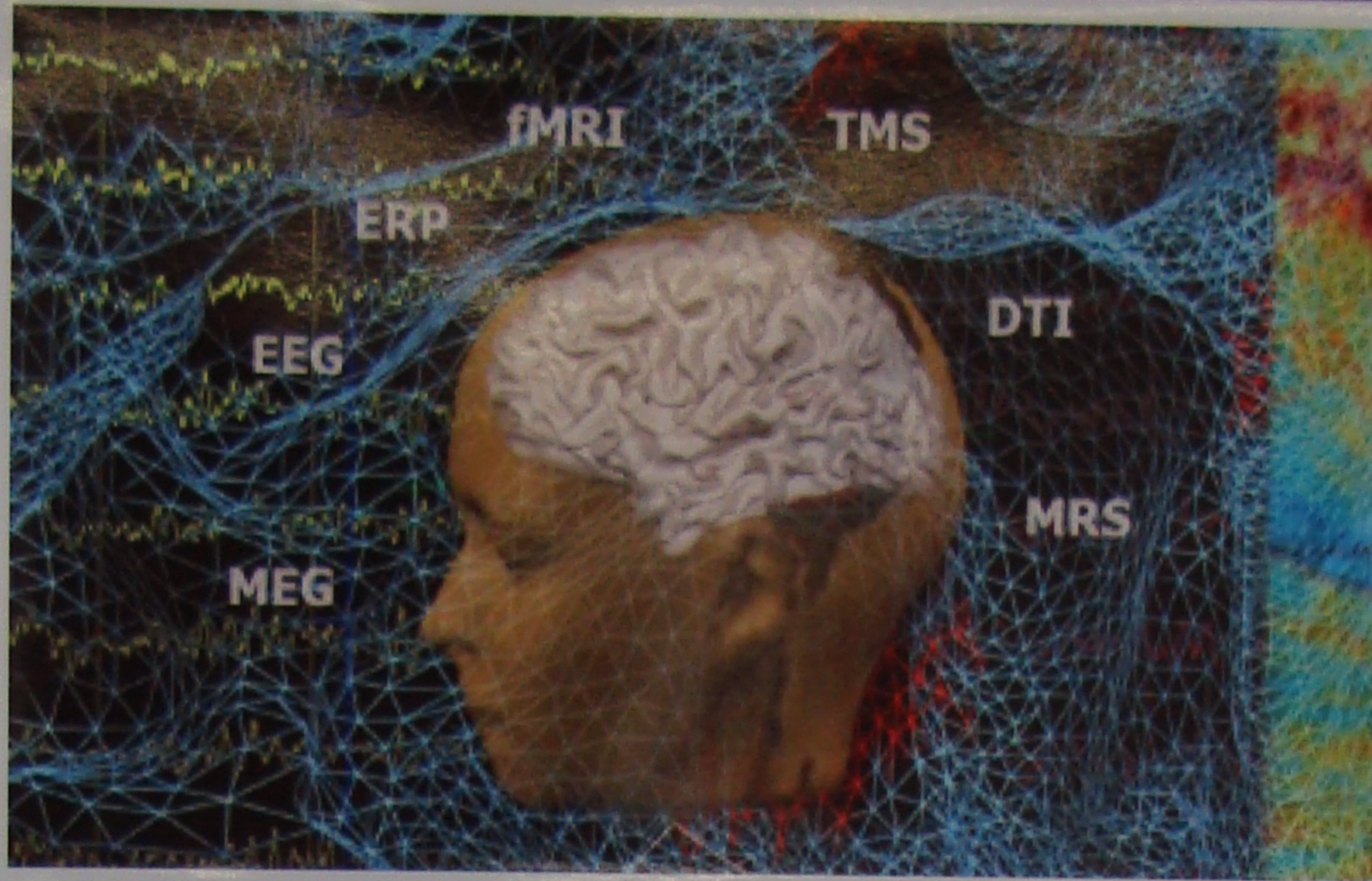
**Presidential Welcome Notes**

- K. Maurer (Frankfurt) /
- T. Dierks, (Bern)
- R. Deichmann (Frankfurt)
- I. Bodis-Wollner (New York)

**Honorary lecture:**

- A. Meyer-Lindenberg (Mannheim)

**Concert**



**The Impact of Neuroimaging in Psychiatry and Cognitive Neuroscience:**

**Current State and Future Perspectives\***

10. – 13. September 2008

**Venue:**

**Uniklinik Frankfurt/M.**  
Theodor Stern Kai 7  
60590 Frankfurt am Main

**Symposia and Oral Sessions:**  
**Lecture halls: 23-3 + 23-4**  
**(Entrance through building 22)**

Registration Desk,  
Poster Sessions,  
Industrial Exhibition  
and Buffet:  
Foyer, 1st floor

**Friday**

12.09.2008

**KEYNOTE LECTURE**

- J. D. Haynes, Leipzig

**SYMPOSIA**

**1. Neural Synchrony and Connectivity in Schizophrenia**

- Chair: P. Uhlhaas (Frankfurt)

**2. Multicenter studies with fMRI: Rationale and first results**

- Chairs.: T. Kircher (Aachen)/  
Pfleiderer (Münster)

**3. Electrophysiology in Psychosis**

- Chairs: P. Flor-Henry (Edmonton) /  
J. Kayser (New York)

**4. Cerebral Changes in Mild Cognitive Impairment**

- Chairs.: J. Schröder (Heidelberg) /  
T. Dierks (Bern)

**5. Neurocognitive effects of second generation antipsychotics: ERP findings**

- Chair: S. Galderisi (Napel)

**Saturday**

13.09.2008

**KEYNOTE LECTURES**

- A. Heinz (Berlin)
- K. Maurer (Frankfurt)

**SYMPOSIA**

**1.-3. Evidence Based Electrophysiology of Neurobehavioral Disorders**

- Chair: N. Moore (Tennessee)

**4. The body and the brain: new insights from the neuroimaging perspective**

- Chairs.: A. Stirn / K. Maurer  
(Frankfurt)

**5. Affect and Affectregulation: Basic research and Clinical Applications**

- Chairs.: H. Walter (Bonn)  
(New York)

**6. Modulation of neuroplasticity in the human brain**

- Chairs: A. Antal / Paulus (Göttingen)

**Contact:**

Prof. Konrad Maurer,  
Dept. for Psychiatry, University Hospital  
of Frankfurt  
Tel.: 069 – 6301 -5125  
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**Thursday**

11.09.2008;

**KEYNOTE LECTURES**

- R. Goebel (Maastricht)
- R. Traub (New York)
- D. Braus (Wiesbaden)
- T. Dierks (Bern)

**SYMPOSIA**

**1. Applications for Combined EEG and fMRI in Basic and Clinical Research**

- Chair: T. Koenig (Bern)

**2. Magnetic Resonance Spectroscopy in Psychiatry**

- Chairs: M. Bajbouj (Berlin) /  
M. Colla (Berlin)

**3. Neuroimaging in Parkinson`s Disease**

- Chair: I. Bodis-Wollner (New York)

**4. Special Session on TMS: Basics and State of the Art in Neuroscience and Clinical Applications**

- Chairs: A. Kohler (Frankfurt) /  
A. Sack (Maastricht)

**5. Neurophysiological diagnostics and impaired consciousness**

- Chair: H. Binder (Wien)

**6. Neural synchrony and its modulation with training and TMS**

- Chair: C. Haenschel (Frankfurt)



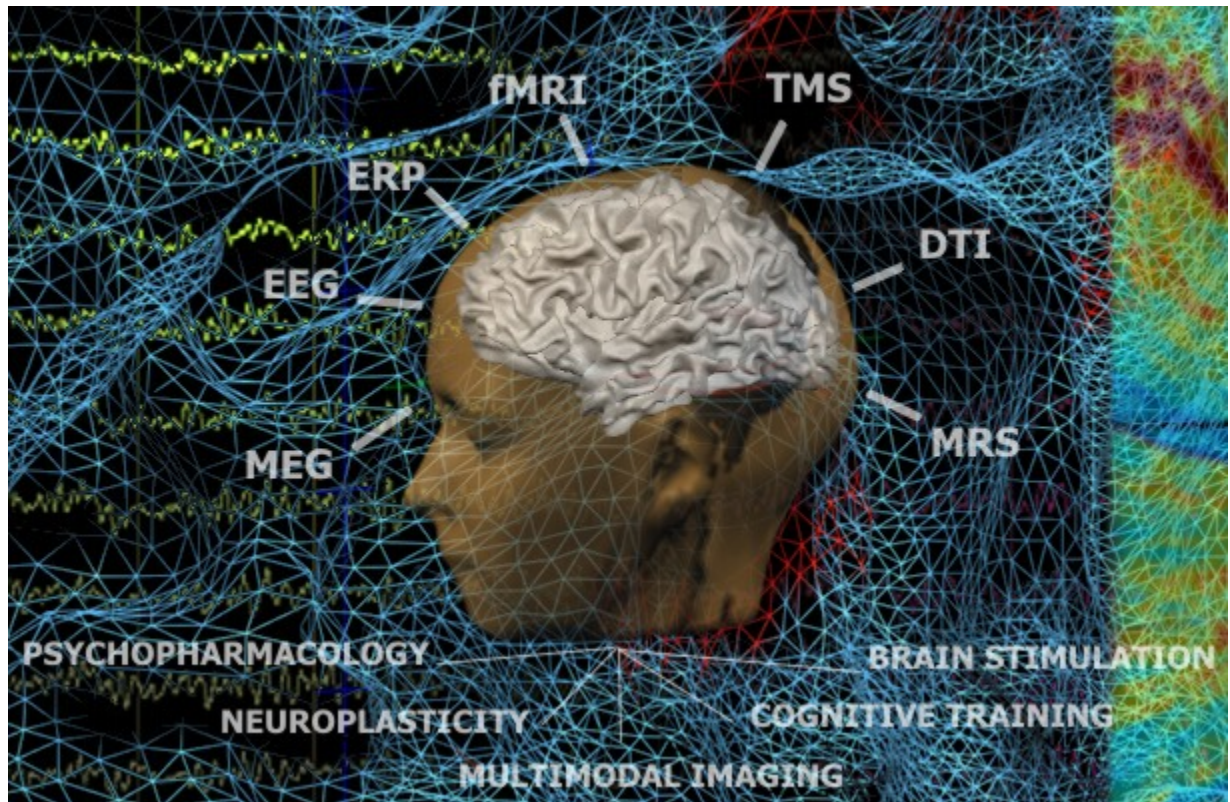
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[ISNIP 2008](#)

The International Society for Neuroimaging in Psychiatry (ISNIP) and  
the EEG and Clinical Neuroscience Society (ECNS) present:

## 5th ISNIP & ECNS Joint Conference



It is a great pleasure for us to invite you to participate in the 11th International Congress of the International Society for Neuroimaging in Psychiatry, which will be held in **Frankfurt**, Germany during **September 10 - 13, 2008**. After the ten prior successful ISNIP meetings we have the great honour to organize the 20th anniversary meeting. Similar to the last few meetings we will again jointly organize this meeting with the EEG and Clinical Neuroscience Society (ECNS). This year the conference main

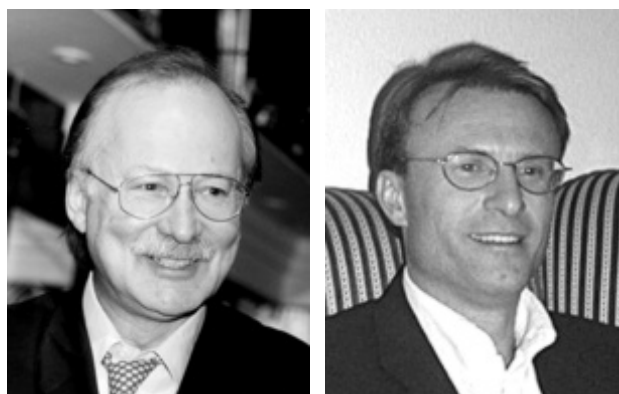
theme will be:

## Impact of Neuroimaging in Psychiatry and Cognitive Neuroscience: Present State and Future Directions

International experts will provide insights in most recent trends and methodical advances in Clinical Neuroimaging, such as multimodal imaging, simultaneous fMRI, EEG and TMS, deep transcranial magnetic stimulation, neuronavigation etc. Another focus will be the practical application of these methods in biobehavioural and psychiatric disorders, including seminars on multicenter studies, and evidence-based electrophysiology and neuroimaging. We will also discuss some hot topics from the neuroimaging perspective, including decision making in the brain, the impact of psychic disorders on the free will and therapeutical implications of methods to modulate neuroplasticity.

We will try to avoid a too tight program schedule leaving time for discussions with colleagues and for you to enjoy Frankfurt and its surroundings. The city lies right in the heart of Germany, and can easily be reached by rail, road or air from the main capitals of the World. Frankfurt is known for its many cultural activities, like theatres and exhibitions.

We are looking forward to welcoming you and your family to Frankfurt in September 2008!



Konrad Maurer and Thomas Dierks

Congress Presidents



Ivan Bodis-Wollner,  
President of ECNS



**ISNIP: International Society for Neuroimaging in Psychiatry**

ISNIP is an international non-profit scientific and educational organization dedicated to disseminating knowledge regarding the latest scientific advances in the field of Neuroimaging in Psychiatry and related fields and promote the understanding, treatment, and prevention of neuropsychiatric diseases. ISNIP also has a strong commitment to support scientific meetings including teaching courses.

To promote the Society's primary goal to endorse the exchange of information among researchers it publishes the journal *Psychiatry Research: Neuroimaging* and aims to hold annual meetings and educational courses that attracts attendees from around the globe. Furthermore the Society will provide information about professional development activities, scientifically and clinical information, and educational resources by e.g. its own Webpage.





## EEG & Clinical Neuroscience Society

### [ECNS: EEG and Clinical Neuroscience Society](#)

In 1998 the American Medical EEG Association (AMEEGA) and the American Psychiatric Electrophysiology Association (APEA) merged to form the EEG and Clinical Neuroscience Society (ECNS).

The primary goal of ECNS is to further the clinical practice of classic electroencephalography (EEG), quantitative EEG (QEEG), evoked potentials, magnetoencephalography (MEG), electroconvulsive therapy (ECT), transcranial magnetic stimulation (TMS), deep brain stimulation (DBS), polysomnography (sleep EEG), and EEG Neurofeedback from the professional, scientific, and economic standpoints. The dynamic nature of this society is attested to by the increasing numbers of presentations at meetings that employ newer methods of assessing brain function, e.g., SPECT, PET, functional MRI.

The ECNS is an international scientific and educational organization dedicated to disseminating knowledge regarding the latest scientific advances in the above mentioned fields of electrophysiology as they relate to the understanding, treatment, and prevention of Neurobehavioral disorders including, but not limited to, head injury, epilepsy, pain syndromes, movement disorders, cerebrovascular disorders, metabolic and degenerative disorders, thought disorders, mood disorders, anxiety disorders, personality and substance dependence disorders.

# International Society for Neuroimaging in Psychiatry



With the widespread availability of techniques to assess brain structure and function in mental disease in the middle of the 1980s, interest in neuroimaging in psychiatry underwent a rapid increase. Out of a desire to support and nurture this promising branch of biological psychiatry, the International Society for Neuroimaging in Psychiatry (ISNIP) was founded at the 1988 meeting of the CINP in Munich. ISNIP began as a small but dedicated group of psychiatrists active in neuroimaging. With the rapid development of the field, the number of clinicians and scientists invested in neuroimaging has increased enormously and ISNIP now counts more than 500 members.



Founding of ISNIP 1988 in Munich during the CINP

ISNIP is proud to have initiated, in collaboration with [Elsevier Science Publishers](#), an official society journal that is now a valuable resource for scientists in this emerging field: *Psychiatry Research: Neuroimaging*. Thanks to a generous grant from Rhone-Poulenc Rorer, it was possible to offer a free subscription to all ISNIP members in the first year of publication. A subscription to the journal is now included in ISNIP's comparatively

modest membership fee. Support from corporate donors has helped to keep administrative overhead low. The success of our journal can also be seen in its growth from four issues per year in 1990 to nine issues in 1997 and 1998. The most encouraging indicator of the journal's success is the continuous growth in its impact factor, now approx. 2.3.

Regarding the content of the journal, from 1990 to 1998, the most common methods used to investigate structural or functional brain alterations in mental disease were MRI (31%), PET (20%), SPECT (19%), electrophysiology (10%), MRS (7%), CCT (6%), histology (4%), and fMRI (3%). The most common topics covered were schizophrenia (32%), basic neuroscience (27%), pharmacology (10%), affective disorders (9%), dementia (7%), addiction (6%), and obsessive-compulsive disorder (5%).

ISNIP also has a strong commitment to support scientific meetings. In 1997, the 5th ISNIP-sponsored international symposium took place in Groningen, The Netherlands. Symposia with which ISNIP has been associated are listed below.

Year	Location	Organizer
1988	Würzburg, Germany	K. Maurer
1990	Würzburg, Germany	K. Maurer
1994	Antalya, Turkey	B. Taneli
1995	Frankfurt, Germany	K. Maurer
1997	Groningen, Netherlands	J. Korf

Finally, the increasing number of ISNIP members and the above-mentioned rise in the impact factor of ISNIP's official journal reflect the importance of this field of biological psychiatry and attest to the timeliness of the initiative of a small group of dedicated clinicians and scientists in 1988 to launch the society. With the development of more and more sophisticated techniques to investigate cerebral structure and function, as well as the concomitant accumulation of clues to the pathophysiology of mental diseases, we believe the field of neuroimaging in psychiatry has great potential for continued growth, making it worthwhile to continue with ISNIP and its official journal, *Psychiatry Research: Neuroimaging*.



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