

From the Anwendertreffen in Hanau, 11.9.06

EU-Antrag RTN GLADNET.

Analytical glow discharge network

Was ist aus dem Antrag geworden?

Ev. neue Aktivitäten/Möglichkeiten für einen neuen Antrag.

Edward Steers

London Metropolitan University

Research Training Network

Three aims (Ziel):

- ③ Interdisciplinary (Physics, Chemistry, Material Science)
- ③ Intersectorial (Industry, University, Research Institutes)
- ③ Overcoming fragmentation (small research groups)

2 stage process -

1. stage - (12 pages) deadline ~28. September 2005

Result: End Dec.2005 ~700 proposals, ~200 selected

2. stage - (48 pages) deadline 14. February 2006

Result - End April 2006. 75 selected for contract negotiation.

15 (including GLADNET) on reserve list. Remainder not funded.

End July 2006. GLADNET not chosen from reserve list. No chance of funding. Reported to Anwendertreffen, 11.9.06

23.9.06. A birthday present from the EC! I celebrated a special birthday with friends in Germany. That day Johann Michler from EMPA forwarded me an e-mail from the EC: “Extra funding has become available. Start Gladnet contract negotiations immediately, to be completed by 6.10.06” AND THEY WERE COMPLETED!

QUALITY/CAPACITY OF THE NETWORK PARTNERSHIP (EC report on proposal)

“Although large in scale, the size of the network is commensurate with the research and training/ToK objectives of the proposal, and the task distribution and schedule are well thought out.

The network teams have a history of previous bilateral and multilateral collaboration (in a thematic network and STREP project for example).

They also have the necessary expertise and infrastructure to deliver a successful outcome to this project and to provide high quality training and tutoring of ESR/ER.

However, the participation of the US-based partner needs fuller justification.”

Start date : 1st February 2007

End date : 31st January 2011

Network coordination: EMPA, CH

Recruitment management : IFW Dresden, DE

**Training management: London Metropolitan
University, UK**

IPR management: Thyssen Krupp Steel AG, DE

GLADNET - Analytical Glow Discharge Marie Curie Research Training Network (RTN)



16 Partners from (11)10 countries
(10)11 **Early Stage Researchers (ESR)**

3 year posts

5 Experienced Researchers
(1-2 yr posts)

www.gladnet.eu

J. Anal. At. Spectrom.,
2007, 22

Glow and glory

N. Jakubowski, E. Steers, A.
Tempez

Editorial, pp. 715–721

Trends in glow discharge spectroscopy

N. Jakubowski, R. Dorka, E.
Steers, A. Tempez

“Perspective”, pp. 722–735

Volume 22 | Number 7 | 2007

J A A S

Journal of Analytical Atomic Spectrometry

www.rsc.org/jaas

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J A A S

2006 Asia-Pacific Winter Conference on Plasma Spectrochemistry, Bangkok, Thailand

Pages 705–844



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Issue contains papers from the 2006
Asia-Pacific Winter Conference on
Plasma Spectrochemistry

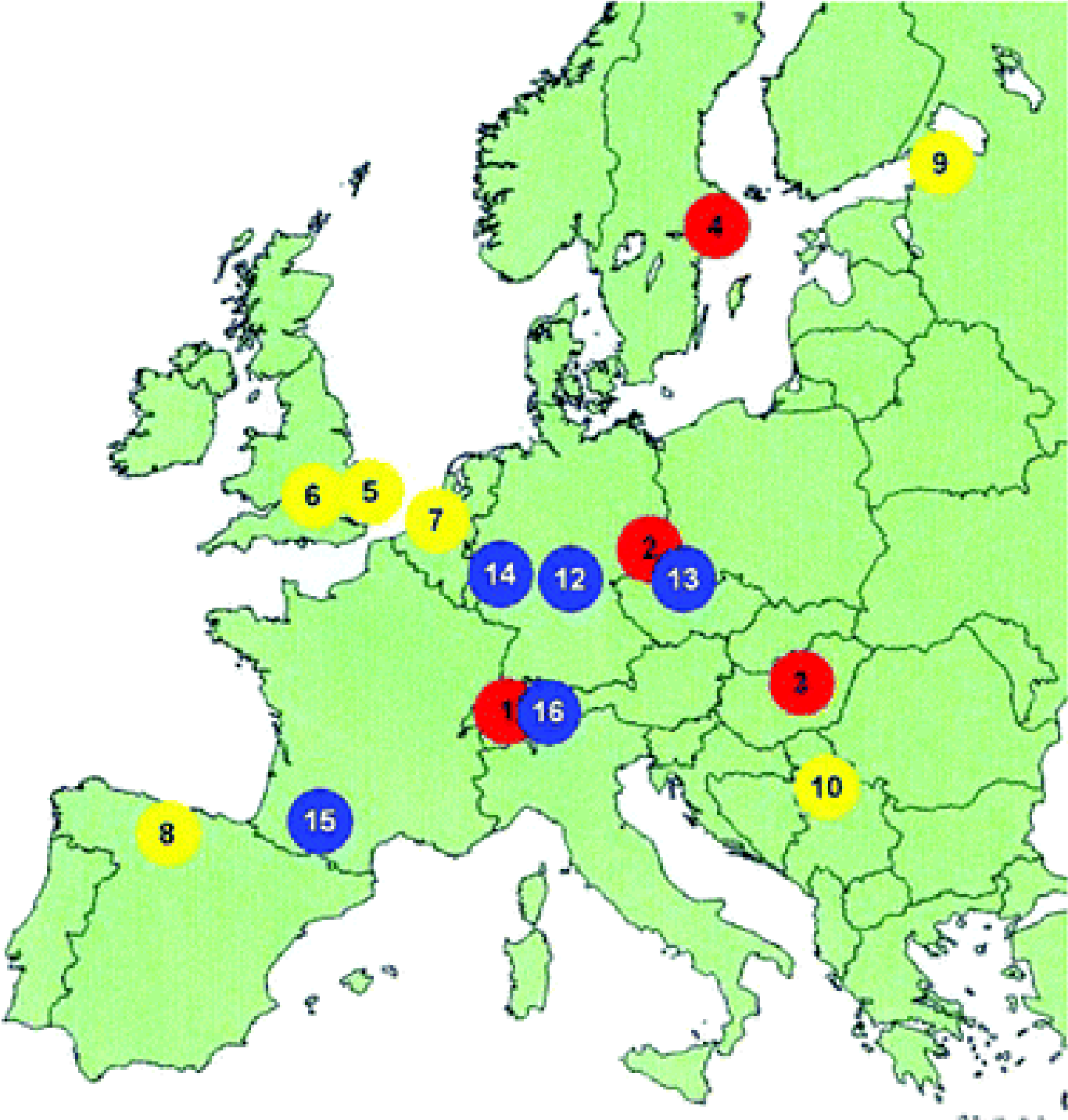
Editorial
Jakubowski
Glow and Glory



0267-9477(2007)22:7:1-V

	Participant Organisation name and Department		Country
RESEARCH INSTITUTES			
1	Swiss Federal Laboratories for Materials Testing and Research, Thun	EMPA	Switzerland
2	Leibniz Institute for Solid State and Materials Research Dresden	IFW	Germany
3	Research Institute for Solid State Physics and Optics, Budapest	RISSP	Hungary
4	Corrosion and Metals Research Institute, Stockholm	KIMAB	Sweden
HIGHER EDUCATION			
5	Imperial College of Science Technology and Medicine, London, Physics Dept.	ICSTM	UK
6	London Metropolitan University, DCCTM	ULMET	UK
7	University of Antwerp, Chemistry Dept.	UA	Belgium
8	University of Oviedo, Chemistry Dept.	UNIOVI	Spain
9	St. Petersburg State University, Chemistry, Dept.	CRI-SPSU	Russia
10	University of Belgrade, Faculty of Physics	FoPB	Serbia and Montenegro
11	Indiana University, Chemistry Dept.	IU	USA
INDUSTRIALS			
12	AQura GmbH (Degussa AG), Hanau	DEG	Germany
13	LECO Instrumente Plzen, spol. s r.o.	LECO	Czech Republic
14	Thyssen Krupp Steel AG, Dortmund	TKS	Germany
15	Shiva Technologies Europe, Toulouse	STE	France
16	TOFWERK AG, Thun	TOFWERK	Switzerland

Location of partners



ESR ~ PhD students. ER ~ post-docs.

All posts 3-36 months

Mobility

Researchers (ESR and ER) all employed in country other than home country.

(Must not have previously worked there more than one year in last three)

During contract, will spend periods at other partners (and limited periods at other institutes)

ORGANISATION

Coordinator	Johann Michler (EMPA)
Recruitment Manager	Volker Hoffmann (IFW)
Training Manager	Edward Steers (ULMET)
IPR Manager	Tamara Appel (TKS)
Web Manager	Thomas Nelis (Toulouse)

Steering Committee
Recruitment Committee
Training Committee

Training.

ESR normally registered for PhD.

ER employed for ToK, in both directions

6 monthly training courses for all ESR and ER.

(open to others)

Sept. 2007 Antwerp

April 2008 Dresden

August 2008 Belgrade

Feb. 2009 Graz?

Sept. 2009 Budapest

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Five Work packages

1. Pulsed discharges (Coordinator: V.Hoffmann)IFW)

P1	RF-GD analysis using an improved RF powered source. Study of RF discharges with mixed gases	IFW
P2	Thin walled hollow cathodes	CRI-SPSU

2. Experimental studies on glow discharge processes (Coordinator: E. Steers)

P3	Discharge processes understanding	ULMET
P4	Emission spectroscopy measurements	FoPB
P5	High resolution Fourier transform spectroscopy (FTS) studies on Grimm-type GD sources	ICSTM

3. Modelling studies (Coordinator A. Bogaerts)

P6	Effect of molecular gases on the electrical parameters, emitted spectra and ion concentrations	UA
P7	Crater shape modelling of pulsed discharges	RISSP

4. Analytical studies (Coordinator: T. Nelis)

P8	Pulsed RF GD analysis of non-conductive thin films	EMPA
P9	New applications of continuous and pulsed RF-GD-OES for the analysis of advanced materials	UNIOVI
P10	Analytical potential of a new double focussing GD-MS instrument	DEG
P11	GD-TOFMS for the analysis of macromolecular materials	EMPA
P12	Laser-assisted GD sputtering for spectrochemical imaging	TOFWERK
P13	Determination of H in steels	TKS, KIMAB
P14	Factors affecting GD-MS results	STE

5. Complementary studies (Coordinator: Z. Donko)

P15	Fundamental data on reaction rate coefficients	RISSP
P16	Use of CCD and FT spectrometers to record experimental glow discharge spectra	LECO

Information on activities, vacancies, etc.

www.gladnet.eu

Become an “affiliate”

Network Affiliates

Universite Paul Sabatier, (F)	Horiba Jobin-Yvon, (F)
Newcastle University (UK),	MassCare Ltd, (UK)
University of Wales (UK),	Acelor, (B)
Keio University (Japan),	Voest-Alpin Stahl, (A)
Florida University (USA),	AB Sandvik Materials Technology (S),
Institute for Analytical Sciences,(D)	Scania (S),
BAM, Berlin (D),	Neuen Materialien Fürth (D),
Institute of Solid State Physics, (B)	Diamler-Chrysler AG, (D)
Thermo Finnigan, (D)	Bosch AG, (D)
Spektruma Analytik, (D)	

Ich danke Ihnen für Ihrer
Aufmerksamkeit

Es freut mich, Fragen und
Bermerkungen zu bekommen,
aber sprechen Sie auf Englisch,
bitte!