The European Working Group For Glow Discharge Spectroscopy

History, Aims and Achievements

Peter Robinson MassCare Ltd United Kingdom



The European Working Group for Glow Discharge Spectroscopy History, Aims and Achievements



The European Working Group for Glow Discharge Spectroscopy History, Aims and Achievements

Involved with GDMS since 1982



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Worked with EW-GDS since 2002 Chairman since 2012



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Worked with ISO/TC/201 since 2004 Elected Chairman of SC8 (GDS) 2017



The European Working Group for Glow Discharge Spectroscopy History, Aims and Achievements

When was EW-GDS formed?



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When was EW-GDS formed?

1992 at the GAMS Conference, Paris

Very informal group of people, chaired by Arne Bengtson, included Edward Steers, John Murphy and others.

> Interested in GD-OES Applied to Depth Profiling



Second Meeting 1993 at CSI, York

Expanded Area of Interest to Include MS and Bulk Analysis

Added Sub Group Chaired by Edward Steers to Investigate Fundamentals



Developed and Progressed Over the Years

Meetings Held Most Years Associated with Conferences, then own Symposia

Became More Formal as Needed

Involved More People and More Countries



EW-GDS Steering Committee 2019

Peter Robinson, UK. Chairman Volker Hoffmann. Germany Petr Smid. Germany Thomas Nelis. Switzerland Myriam Madani. Belgium Arne Bengtson. Sweden Rosario Pereiro. Spain Zdenek Weiss. Czech Republic Philippe Guillot. France **Piotr Konarski, Poland** Jorge Pisonero, Spain





The European Working Group for Glow Discharge Spectroscopy History, Aims and Achievements

To Understand the Fundamental Processes Taking Place Inside the Plasma



The European Working Group for Glow Discharge Spectroscopy History, Aims and Achievements

To Understand the Fundamental Processes Taking Place Inside the Plasma

To Improve the Detection of the Spectral Lines Or Ions



To Understand the Fundamental Processes Taking Place Inside the Plasma

To Improve the Detection of the Spectral Lines Or Ions

To Develop Instrumentation to Meet Demands for New Applications



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How Do We Aim to Achieve This?



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How Do We Aim to Achieve This?

Bring Together

Users Manufacturers Academia



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EW-GDS has been the Centre Of Several Major Projects Over The Years.

These Have Achieved the Bringing Together of the Three Groups; Manufacturers, Users, Academics



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The First Major Project was the EC Thematic Network Project 1999-2002



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This Involved 19 Partners from 11 Different Countries and a Further 16 Associate Partners from 6 Countries.



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Four Working Groups; Standard Procedures and Reference Materials Development of Methods and Instrumentation Study of Glow Discharge Mechanisms Transfer of Technology and Know How





The European Working Group for Glow Discharge Spectroscopy History, Aims and Achievements

This was a Direct Results of Discussions Held During the First Project and Gained EU Funding for the Development of a New Mass Spectrometer.



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> Seven Partners from Five Different Countries



Led to the Development of a Fast Flow Source for a Mass Spectrometer, Now Commercially Available.



The Third Major Project 2007-2011



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The Third Major Project 2007-2011

Marie Curie Training Network GLADNET



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The Third Major Project 2007-2011

Marie Curie Training Network GLADNET

16 Partners from 10 Countries 20 Associated Partners 11 Research Posts (PhD) (3 Years) 5 Post Doc Posts (2 Years)





The European Working Group for Glow Discharge Spectroscopy History, Aims and Achievements

2015 EGLODIA. Scored 85%



The European Working Group for Glow Discharge Spectroscopy History, Aims and Achievements

2015 EGLODIA. Scored 85%

2016 GLODISIA. Scored 89%



2015 EGLODIA. Scored 85%

2016 GLODISIA. Scored 89%

Neither Successful. We Will Refocus And Keep Trying!!



The Most Important Aim of EW-GDS?



The European Working Group for Glow Discharge Spectroscopy History, Aims and Achievements

The Most Important Aim of EW-GDS?

To Recruit Young Scientists Into the Field of Glow Discharge



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The Richard Payling Memorial Award





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Some of the Winners of the Richard Payling Memorial Award







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Edward Steers Memorial Awards



Best GDS Publication of the Year

Financial Assistance to Help Young Researchers Attend Conferences.



The European Working Group for Glow Discharge Spectroscopy History, Aims and Achievements

EW-GDS Drive to Expand Interest in GDS Through the Organisation of International Symposia.

> Make Our Work More Visible to the World



1st International Glow Discharge Spectroscopy Symposium



Albi, France. 2010



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2nd International Glow Discharge Spectroscopy Symposium



Prague, Czech Republic. 2014



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3rd International Glow Discharge Spectroscopy Symposium



Liverpool, UK. 2016



The European Working Group for Glow Discharge Spectroscopy History, Aims and Achievements

4th International Glow Discharge Spectroscopy Symposium

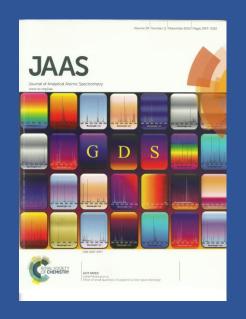


Berlin, Germany, 2018



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Increase Visibility of our Work







The European Working Group for Glow Discharge Spectroscopy History, Aims and Achievements

5th International Glow Discharge Spectroscopy Symposium



Oviedo, Spain April 2020



The European Working Group for Glow Discharge Spectroscopy History, Aims and Achievements

The Word is Spreading

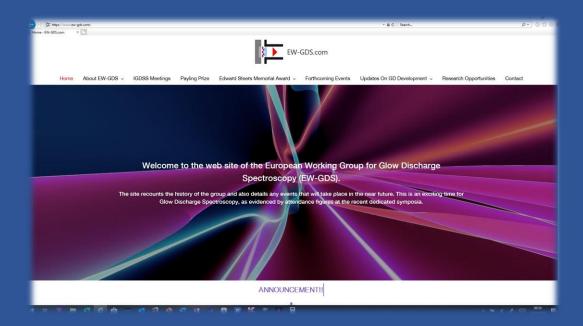


1st Chinese GDS Symposium Shanghai 2017



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New Web Site to Make Our Work More Visible to the World www.ew-gds.com





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I Would Like to Express My Thanks to the Organisers of This Meeting for Giving Me the Chance to Talk About This Part of My Work

But Before I Finish



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Thank You All for Listening!!





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