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GESELLSCHAFT DEUTSCHER CHEMIKER

# Symposium on Microwave Accelerated Synthesis

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## M.A.S.-05



Duesseldorf, Germany  
September 14-16, 2005

*Heinrich Heine*  
HEINRICH HEINE  
UNIVERSITÄT  
DÜSSELDORF

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Herzlich Willkommen

Hier finden Sie aktuellen Informationen zu allen Tagungen.  
Wir freuen uns, Sie bei unseren Veranstaltungen begrüßen zu dürfen.

MAP

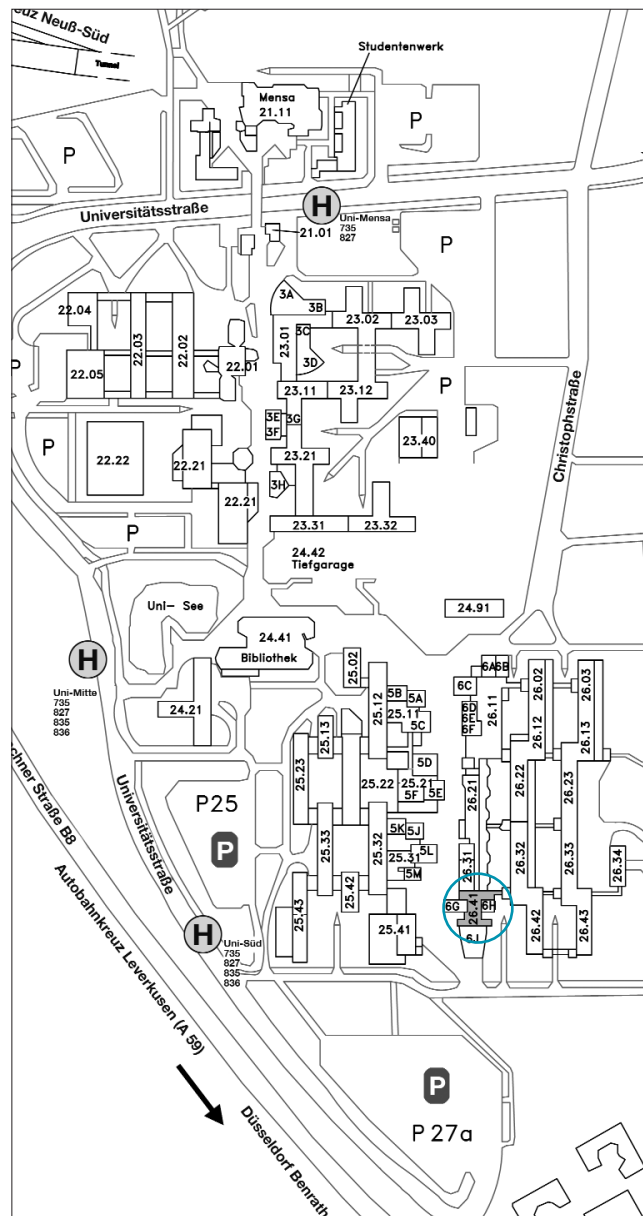
>> SCIENTIFIC COMMITTEE

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Following companies have generously agreed to offer financial support:

- Axel Semrau GmbH & Co. KG, Sprockhövel
- CEM Mikrowellen-Labortechnik GmbH, Kamp-Lintfort
- Zinsser Analytic GmbH, Frankfurt/Main



Lecture Hall, Building 26.41

## INTRODUCTION

Over the last few years microwave irradiation has become a common and efficient energy source in chemical and pharmaceutical industry. It is also an approved way to perform chemical syntheses faster and cleaner in academic and industrial research. However, the exorbitant increase in the number of publications dealing with this subject emphasises on the promising potential of microwave accelerated syntheses that has not yet been discovered completely. Microwave accelerated reactions still reveal fascinating opportunities concerning pathway course, reaction rate and yield.

On this account, GDCh has great pride in organizing the first ever Symposium on Microwave Accelerated Synthesis in Germany at the Heinrich-Heine University, Duesseldorf. This Symposium aims at presenting and discussing the opportunities and advantages of microwave irradiation in chemical reactions. By gathering scientists, technological engineers and experts from academic, industrial and governmental institutes, this event will offer a diversified view on this fascinating and versatile issue of science.

Surrounded by renowned chemical industry, the University of Duesseldorf affords room for discussions and contacts besides our interesting scientific program. Furthermore, the cultural offerings of Duesseldorf and its beautiful *Altstadt* will set a suitable frame for sharing experience and meeting colleagues.

GDCh has great pleasure in inviting you to the Symposium on Microwave Accelerated Synthesis in Duesseldorf. Take your chance of this auspicious occasion from 14<sup>th</sup> to 16<sup>th</sup> of September and get introduced to the advantages of microwave accelerated syntheses for your chemistry.

## PROGRAMME SCHEDULE

## Wednesday, September 14, 2005

17.00-  
20.00- **RECEPTION and REGISTRATION**

## Thursday, September 15, 2005

- 10.00 **(OC) OPENING REMARKS**  
Prof. Ritter, Duesseldorf/D  
  
*Chairman : Prof. Dr. M. Fröba, Giessen/D*
- 10.15 **(IL) Microwave Chemistry for the Future**  
Collins, M., Matthews/USA
- 10.45 **(OC) Microwave-Accelerated Synthesis of Modified Oligonucleotides**  
Richert, C., Karlsruhe/D
- 11.05 Coffee Break
- 11.35 **(IL) Microwave Assisted Peptide Synthesis – Past, Present and Future of Drug Development**  
Frank, H.-G., Baesweiler/D
- 12.05 **(IL) Microwave-assisted Polymer Synthesis**  
Schubert, U. S., Eindhoven/NL
- 12.35 **(OC) Microwave-Accelerated Optimizations of Protease Inhibitors**  
Larhed, M., Uppsala/S
- 12.55 **(OC) Rule of Five**  
Lipinski, C., Matthews/USA
- 13.15 Lunch Break (Mensa)  
  
*Chairman: Prof. Dr. U. Beifuß, Stuttgart/D*
- 14.30 **(IL) Microwaves in Organic and Medicinal Chemistry**  
Kappe, O., Graz/A
- 15.00 **(IL) Microwave Assisted Synthesis of Adenosine Receptor Ligands**  
Burbiel, J., Bonn/D
- 15.30 **(OC) Thermal and Microwave-Mediated Coupling-Isomerization-Enamine MCR-Syntheses – Effects in Consecutive One-Pot Reactions**  
Müller, T. J. J., Heidelberg/D

## PROGRAMME SCHEDULE

## Thursday, September 15, 2005

- 15.50 **(OC) En Route to the Structure Elucidation of Samoquasine A: Synthesis of Benzo[f]phthalazin-4(3H)-one using MAOS**  
Maes, B. U. W., Antwerpen/B
- 16.10 Coffee Break
- 16.40 **(IL) Recent Applications of MW-Irradiation in Template Assisted Synthesis of Porous Materials**  
Fröba, M., Giessen/D
- 17.10 **(OC) In situ Real-Time Monitoring of Alkaline Modification of Carrageenan in Thermal and Microwave Fields**  
Uy, S., Auckland/NZ
- 17.30 **(OC) Use of Single-Mode Microwave Reactors in Organic Synthesis and in Polymer Chemistry: Application to Ruthenium-Catalyzed C-C Bond Formation**  
Delaude, L., Liège/B
- 17.50 **(OC) Microwave-assisted Synthesis of di- and triblock Copolymer Libraries: A Fast and Versatile Approach to Materials with Tailor-made Properties**  
Wiesbrock, F., Eindhoven/NL
- 18.10 **POSTER SESSION**
- 19.30 **Conference Dinner**

## PROGRAMME SCHEDULE

## Friday, September 16, 2005

*Chairman: Prof. Dr. M. Collins, Matthews/USA*

- 9.00 **(IL) Microwave Assisted Radical Copolymerizations**  
Greiner, A., Marburg/D
- 9.30 **(IL) Solid Phase and Domino Synthesis in the Microwave-bioactive Heterocycles in no Time**  
Schobert, R., Bayreuth/D
- 10.00 **(OC) Acceleration and Scale-up of Microwave-assisted Polymerizations**  
Hoogenboom, R., Eindhoven/NL
- 10.20 **(OC) Microwave-assisted Synthesis of Semiconducting Polymers**  
Tierney, S., Southampton/GB
- 10.40 Coffee Break
- 11.10 **(IL) Microwave Assisted Synthesis of Structural Uniform and Dye-loaded Molecular Sieves**  
Wöhrlé, D., Bremen/D
- 11.40 **(IL) On The Generation of Alkoxy Radicals upon Microwave Assisted Activation of n-(Alkoxy) thiazole-2(3H)-thione**  
Hartung, J., Kaiserslautern/D
- 12.10 **(IL) Microwave Assisted Synthesis of Heterocyclic Compounds**  
Beifuß, U., Stuttgart/D
- 12.40 **Oral Contribution**
- 13.00 Lunch Break
- Chairman: Prof. Dr. H. Ritter, Duesseldorf/D*
- 14.15 **Oral Contribution**
- 14.35 **Oral Contribution**
- 14.55 **Oral Contribution**
- 15.15 **Oral Contribution**
- 15.35 **POSTER-AWARD**

## SUBMISSION OF POSTERS

You are invited to submit posters to the topics:

- Inorganic Chemistry
- Biochemistry
- Macromolecular Chemistry
- Metalorganic / Catalyses
- Organic Chemistry / Natural Materials / Heterocycles
- Pharmacy

Please submit your poster exclusively via internet at

[www.gdch.de/vas/tagungen/tg/5565.htm](http://www.gdch.de/vas/tagungen/tg/5565.htm)

A sample abstract is to be found on the internet. No revisions or corrections will be made by the scientific committee. After a successful transmission you will receive a reference code for each submitted paper and a few days later a confirmation of receipt. In case you should not have received this confirmation after two weeks please contact GDCh by e-mail [tgonline@gdch.de](mailto:tgonline@gdch.de) and indicate the reference code of your paper.

The scientific committee reserves the right to accept or reject papers, and to assign them to oral or poster contribution.

**Deadline: August 1, 2005**

## GENERAL INFORMATION

## &gt;&gt; SOCIAL PROGRAMME

**Wednesday, September 14, 2005** from 17.00 hrs

**Reception**

will take place in the Foyer of Lecture Hall,  
University of Duesseldorf  
Universitätsstrasse 1  
Building 26.41  
40225 Duesseldorf.  
(free of charge, booking required)

**Thursday, September 15, 2005** 19.30 hrs

**Conference Dinner**

The Conference Dinner (music by Irish Folk Band  
"Drops of Brandy") will take place in the Heinrich-Heine-Saal  
of the University.  
Price per person (including drinks) € 25,-.  
(booking required)

## &gt;&gt; CONFERENCE VENUE

University of Duesseldorf  
Building 26.41  
Universitaetsstrasse 1  
40225 Duesseldorf



Düsseldorf  
Marketing & Tourismus GmbH  
Postfach 10 21 63  
D-40012 Düsseldorf

# R E G I S T R A T I O N

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Please return one completed form for each participant no later than  
**August 1, 2005** to the address overleaf or send it to the following  
fax-number: **+49-69-7917-475**

**Symposium on Microwave  
Accelerated Synthesis  
Duesseldorf, Germany  
September 14-16, 2005**

German Chemical Society (GDCh)  
M.A.S.-2005  
P. O. Box 90 04 40  
  
D-60444 Frankfurt am Main

Phone +49-(0)69-7917-366  
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Duesseldorf  
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BLZ 300 501 10

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**tourist-information**

**DÜSSELDORF**  
**marketing**  
**tourismus**



**Reservation deadline: 01.08.2005**

Later reservations on request only

**M.A.S.-05 – Symposium on Microwave Accelerated Synthesis, 14.-16.09.2005**

Room type	Number of rooms	Number of persons	Arrival date	Departure date
Single				
Double				
Twin				

(please fill in your exact requirements)

Price for single room:

 50,- to 70,- €     71,- to 90,- €     91,- € to**All prices incl. V.A.T.**

Price for double room:

 70,- to 90,- €     91,- to 110,- €     111,- € to**and incl. breakfast**

Arrival time

 after 6 p.m credit card details necessary

Special wishes:

The Düsseldorf Marketing & Tourismus GmbH acts solely as an agency intermediating between the visitor and the hotel. The accommodation contract comes about between you and the hotel. Please send this order once only. We will send the reservation as soon as possible.

Reservation team

Düsseldorf Marketing und Tourismus GmbH

**>> TRAVEL INFORMATION****By car**

Highway A3. At “intersection (Autobahnkreuz) Hilden” (exit 18) turn to the A46, direction Düsseldorf/Neuss. From there on follow the instructions under “from east”.

**From east:**

Take highway A46 direction Düsseldorf / Neuss. In the first tunnel (university tunnel) take the exit “Universität”, and after about 500 m turn left to “Universität”. Follow this road (“Universitätsstraße”) about 1.5 km. Turn left (signs “Naturwissenschaften” / “Botanischer Garten”). Pass the barrier on the right hand side to parking deck 27.

**From west:**

Take highway A57 to “junction (Autobahndreieck) Neuss-Süd” (exit 24) and from there take the A46, direction “Düsseldorf / Wuppertal”. Follow the signs “Düsseldorf-Benrath” or “Universität” (always keep right after the bridge over the Rhein, the sign “Universität” may be visible for the first time when you are already leaving the highway) to “Universitätsstraße”. First turn right finally leads you to parking deck 27. From parking deck walk to the university buildings (follow the signs).

**By train**

Use exit “Konrad-Adenauer-Platz” by directing towards track 1 and go to the tramway station. The tramway number 707 leaves any 10 minutes from platform no. 7 to “Universität-Ost”. It takes about 20 minutes until you reach the terminal station “Universität-Ost”. Go straight on from the terminal station and at the junction follow the right turn of the street to the university. Take the second way on the left. After about 75m the entrance to building 26.41 is on the left hand side

**By plane**

Take public transportation (S-Bahn, S7 or S1) to “Hauptbahnhof Düsseldorf” (central railway station).

## GENERAL INFORMATION

## &gt;&gt; REGISTRATION

Please register online via internet not later than **August 1, 2005**

[www.gdch.de/vas/tagungen/tg/5565.htm](http://www.gdch.de/vas/tagungen/tg/5565.htm)

All tickets and conference papers (incl. book of abstracts) will be given to participants upon check-in at the registration desk. Participants who paid the complete invoice in advance are entitled to view all abstracts on the internet by August 2005.

Payment of the registration fee entitles participants to attend all sessions and the reception on Wednesday and to receive a free copy of the book of abstracts and list of participants.

Coffee, tea and mineral water as served during the breaks will be free of charge.

Delegates are requested to wear their congress badges at all times for identification and admittance to the conference rooms.

Upon online-registration payment by credit card or direct debit (only with German bank account) is preferred. If you want to pay by bank transfer please do not forget to print out the invoice at the end of your online-registration.

Participants who have sent the registration form by regular mail or fax are requested to pay the fees (free of bank commission) after having received the invoice to the following account:

GESELLSCHAFT DEUTSCHER CHEMIKER  
Dresdner Bank AG Frankfurt am Main  
Routing Number (BLZ) 500 800 00  
Account No. (Kto.Nr.) 4 900 200 00  
**Code: 5565 / M.A.S.-05**

## GENERAL INFORMATION

## ATTENTION

Participants from EU countries except Germany please use IBAN (International Bank Account Number) and SWIFT-BIC (Bank Identifier Code) instead of bank account, routing number and bank name:

GESELLSCHAFT DEUTSCHER CHEMIKER  
Dresdner Bank AG Frankfurt am Main  
IBAN DE85 5008 0000 0490 0200 00  
SWIFT-BIC DRES DE FF  
**Code: 5565 / M.A.S.-05**

## &gt;&gt; REGISTRATION FEES

	until August 1, 2005	from August 2, 2005
Participants	€ 200,-	€ 250,-
Students (valid student card required)	€ 80,-	€ 110,-

If fees are paid in advance, but after **August 26, 2005** we kindly ask participants to show proof of payment when claiming their tickets and conference papers at the Conference office. Credit cards (Mastercard, VISA) will be accepted.

Requests for cancellation made prior to **August 15, 2005** will be subject to a € 40,- administration fee.

After this date the full amount of the invoice has to be paid. Requests for refund will not be accepted; however, registration may be transferred to another member of your organization. In this case please send a note to Gesellschaft Deutscher Chemiker, Congress Department: [tg@gdch.de](mailto:tg@gdch.de)

**If the conference is cancelled for whatever reason, fees paid will be refunded. Further recourse is excluded.**

## GENERAL INFORMATION

## &gt;&gt; LANGUAGE

The official conference language is English. No translation will be provided.

## &gt;&gt; LUNCH

Lunch can be taken in the "Mensa". Different meals will be served. Cash payment required.

## &gt;&gt; HOTEL ACCOMMODATION

The Düsseldorf Tourismus & Marketing GmbH is entrusted with the reservation of hotel rooms.

Düsseldorf Tourismus & Marketing GmbH  
Hotel reservation  
P. O. Box 10 21 63  
40012 Düsseldorf

E-Mail: [reservation@dus-mt.de](mailto:reservation@dus-mt.de)  
Internet: [www.duesseldorf-tourismus.de](http://www.duesseldorf-tourismus.de)

We recommend to book your room online.

Application for hotel accommodation should be made not later than **August 1, 2005**.

**The customer will be held accountable for non-occupancy of reserved rooms.**

## GENERAL INFORMATION

## &gt;&gt; EXHIBITION

An exhibition will accompany the M.A.S.-05. Registration and organization by:

German Chemical Society (GDCh)  
Congress Dept. / M.A.S.-05  
P. O. Box 90 04 40  
D-60444 Frankfurt am Main

Phone: +49-69-7917-366  
Fax: +49-69-7917-475  
E-Mail: [tg@gdch.de](mailto:tg@gdch.de)

## &gt;&gt; INFORMATION ON THE SCIENTIFIC PROGRAMME

Prof. Dr. Helmut Ritter  
Heinrich-Heine-Universität Duesseldorf  
Institute for Organic and  
Macromolecular Chemistry  
OC II, Building 26.33  
Universitätsstraße 1  
D-40225 Duesseldorf

Phone: +49-211-81-14760  
Fax: +49-211-81-15840  
E-Mail: [h.ritter@uni-duesseldorf.de](mailto:h.ritter@uni-duesseldorf.de)



## GENERAL INFORMATION

**>> INFORMATION ON REGISTRATION BEFORE AND AFTER THE CONGRESS**

German Chemical Society (GDCh)  
 Congress Dept. / M.A.S.-05  
 P. O. Box 90 04 40  
 D-60444 Frankfurt am Main

Phone: +49-69-7917-366 (Claudia Birkner)  
 Fax: +49-69-7917-475  
 E-Mail: tg@gdch.de

**>> INFORMATION AND REGISTRATION DURING THE CONGRESS**

The conference office will be located nearby the lecture hall.

**Opening hours:**

Wednesday, September 14, 2005	17.00 – 20.00 hrs
Thursday, September 15, 2005	08.00 – 18.00 hrs
Friday, September 16, 2005	08.30 – 14.30 hrs

Phone: +49-211-81-14200  
 Fax: +49-211-81-15840

**>> DATES****Deadlines:**

Submissions of poster:	August 1, 2005
Personal registration:	August 1, 2005
Room reservation:	August 1, 2005