

# 10th INTERNATIONAL CONGRESS ON CATALYSIS

*Third Circular*

**10<sup>th</sup>**

**BUDAPEST '92**

**Budapest Convention Centre, Hungary  
19-24 July, 1992**

**As the official carrier of  
the** 10th INTERNATIONAL  
CONGRESS ON CATALYSIS

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International Union of Pure and Applied Chemistry (IUPAC)  
Chemistry Section of the Hungarian Academy of Sciences  
Federation of European Chemical Societies (FECS)  
Hungarian Chemical Society

**10th INTERNATIONAL CONGRESS ON CATALYSIS**  
Budapest Convention Centre  
19-24 July, 1992 Budapest, Hungary

**PROGRAMME  
and Third Circular**

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## PREFACE

The 10th International Congress on Catalysis (10th ICC) will be held in Budapest, Hungary, through 19-24 July, 1992.

The Congress is organized under the auspices of the Council of the International Congress on Catalysis, the Hungarian Catalysis Society and the Chemistry Section of the Hungarian Academy of Sciences.

### *Congress Site*

#### **Budapest Convention Centre**

Budapest XII., Jagelló út 1-3

**Postal Address:** P. O. Box 233, Budapest, Hungary  
H-1444

MALEV Hungarian Airline is the Official carrier of the 10th International Congress on Catalysis (see overleaf of Front Cover).

### *Congress Office*

- 1) Up to Friday, 17 July, 1992 and after 27 July, 1992  
Professor László Guzzi, Chairman of the Organizing Committee  
of the 10th International Congress on Catalysis  
Institute of Isotopes of the Hungarian Academy of Sciences  
Konkoly Thege Miklós út 29/33, Budapest, Hungary  
H-1225  
**Postal address:** P. O. Box 77, Budapest, Hungary  
H-1525  
Phone: (36)-1-156-4815  
Telex: 22-5360  
Fax: (36)-1-156-5045
- 2) From Saturday, 18 July, 1992 to Friday, 24 July, 1992  
Corvina Room, 8 a.m. - 6 p.m.  
Budapest Convention Centre  
Budapest XII., Jagelló út 1-3  
**Postal address:** P. O. Box 233, Budapest, Hungary  
H-1444  
Phone: (36)-1-166-4595  
Fax: (36)-1-166-4298

## INTRODUCTION

On behalf of the Organizing Committee, we have the honour to welcome you as participants of the 10th International Congress on Catalysis in Hungary, a country now, two years after the change of regime, the 24th Member of the European Community and Associate Member of the European Community. After previous congresses held at four-year intervals in various parts of the world, in Philadelphia (1956), Paris, Amsterdam, Moscow, Palm Beach, London, Tokyo, Berlin and Calgary, it is now our great privilege to organize the ICC first time in Budapest. You will see Budapest in summer although many of you may have been acquainted with our capital through some scientific and other cultural events. The Organizing Committee hopes your stay in Hungary will be enjoyable and you will have a chance to see the sights of our lovely capital and some spots of interest in the countryside as well.

International Congresses on Catalysis have always given special emphasis to heterogeneous catalysis. The programme of the 10th International Congress on Catalysis will focus on New Frontiers in Catalysis including "nontraditional" catalytic materials and environmental catalytic problems. The contributions cover a wide range of fundamental, applied, industrial and engineering aspects of catalysis. The extending range and high efficiency of industrial techniques for observing catalytically important surfaces are also evident in the programme.

The Organizing Committee decided to follow the tradition of previous Congresses to arrange no more than two parallel sessions. We have increased the number of posters somewhat to accommodate a total of about 470 papers from 38 countries. Even so, this required sometimes painful decisions in choosing from the 764 abstracts submitted. The Organizing Committee is most grateful to the Members of the Paper Selection Committee and to the panel of referees who helped to make these choices.

Assistance in meeting the expenses of the Congress has come from a number of sources to whom the Committee is most grateful.

Valuable assistance with local arrangements has been provided by a number of persons in the catalysis and engineering community in Budapest and at major Hungarian Universities and Chemical Companies. Although having been sometimes only peripherally interested in catalysis, they have been eager to ensure the success of this important gathering in Budapest.

The layout of the Budapest Convention Centre seemed particularly well suited to an accompanying exhibition which is being included in the 10th ICC.

We hope that you find the scientific programme outstanding, the excellent social events rewarding and Budapest will provide beautiful and fascinating environment for your stay. We are pleased to have the opportunity to host the 10th International Congress on Catalysis and our Committee sincerely hopes that you will be able to attend. We will make every effort to make your sojourn in Hungary pleasant and memorable.

L. Guzzi  
Chairman of the Organizing Committee

P. Tétényi  
Chairman of the Congress

## CONGRESS COMMITTEES

**Chairman:** Professor Pál Tétényi (Institute of Isotopes, Budapest)  
**Co-Chairman:** Professor Ferenc Nagy (Eötvös University, Budapest)  
**Honorary  
Chairman:** Professor Zoltán G. Szabó (Eötvös University, Budapest)

## ORGANIZING COMMITTEE

**Chairman:** Professor László Guzzi (Institute of Isotopes, Budapest)  
**Secretary:** Dr. Antal Sárkány (Institute of Isotopes, Budapest)  
**Members:** Professor Mihály Bartók (József Attila University, Szeged)  
Professor Pál Fejes (József Attila University, Szeged)  
Dr. Gyula Gáti (Hungarian Oil and Gas Co.,  
Százhalombatta)  
Professor Dénes Kalló (Central Research Institute for Chemistry,  
Budapest)  
Dr. József Margitfalvi (Central Research Institute for Chemistry,  
Budapest)  
Professor László Markó (Research Institute for Technical  
Chemistry, Veszprém)  
Professor Zoltán Paál (Institute of Isotopes, Budapest)  
Professor József Petró (Technical University, Budapest)  
Professor Frigyes Solymosi (József Attila University, Szeged)

## PAPER SELECTION COMMITTEE

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**Co-Chairman:** Professor Zoltán Paál  
**Members:** Professor Dénes Kalló  
Dr. József Margitfalvi  
Professor László Markó

## PUBLICATION

Professor László Guzzi  
Professor Frigyes Solymosi  
Professor Pál Tétényi

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**Secretaries:** Dr. Galina Hardy  
Mrs. Rózsa Lőrincz  
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Dr. Ferenc Evanics  
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Dr. Ágnes Mastalir  
Dr. János Kiss  
Dr. Tamás Katona  
Dr. Sándor Göbölös  
Dr. István Halász  
Dr. R. Magdolna Mihályi  
Dr. Erzsébet Czárán

## TRAVEL AGENCY

### MALEV AIR TOURS

Katalin Telek, Sales Representative  
Phone: (36)-1-118-7836; (36)-1-117-2911(ext 379)  
Fax: (36)-1-118-7359  
Telex: 225370 mairth and 224954 malevh

### EXHIBITION

INTERART, Budapest

Director: Tamás Varsányi  
Managing Director: István Szepessy

## THE COUNCIL OF THE INTERNATIONAL CONGRESS ON CATALYSIS

(as of 5th February, 1992)

### OFFICERS

*President:* Professor J. Haber  
*President-elect:*  
*Vice-President:* Professor J. H. Block  
*Treasurer:* Professor F. S. Stone  
*Secretary:* Professor P. Tétényi  
Official representative (IUPAC): Professor B. Delmon

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Professor B. W. Wojciechowski (Canada)	Professor J. R. Gonzalez de Velasco (Spain)
Professor Yi Chen (China)	Professor F. S. Stone (Great Britain)
Professor X. X. Guo (China)	Professor P. B. Wells (Great Britain)
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Dr. J. P. Brunelle (France)	Professor O. V. Krylov (Russia)
Professor M. Che (France)	Professor K. I. Zamaraev (Russia)
Professor J. H. Block (Germany)	Professor J. L. Figueiredo (Portugal)
Professor H. Knözinger (Germany)	Professor M. F. Portela (Portugal)
Professor F. Solymosi (Hungary)	
Professor P. Tétényi (Hungary)	
Dr. L. Nogueira (Iberoamerican)	
Dr. M. Goldwasser (Iberoamerican)	

## ACKNOWLEDGEMENTS

The Organizing Committee expresses thanks to the various Organizations and Companies promoting the success of the Congress (as of 5 February, 1992).

National Committee for Technological Development, Budapest, Hungary  
Engelhard de Meern B. V., The Netherlands  
Exxon Research and Engineering Co., Annandale, NJ, USA  
The Catalyst Group, Spring House, PA, USA  
Hungarian Oil and Gas Co., Duna Refinery, Százhalombatta, Hungary  
Exxon Chemical International, Kraajnem, Belgium  
Tisza Chemical Co., Tiszaújváros, Hungary  
Borsod Chemical Co., Kazincbarcika, Hungary  
Amoco Oil Co., Naperville, IL, USA  
Haldor Topsoe A/S, Lyngby, Denmark  
Norsk Hydro Reserach Centre, Porsgrunn, Norway  
Union Carbide Chemicals and Plastics Co., Inc., South Charleston, WV, USA  
Procatalyse, Rueil-Malmaison, France  
Elf Aquitaine, Paris, France  
ICI Chemical & Polymers Ltd., Middlesbrough, Great Britain  
Montecatini Technologie, Milano, Italy  
Dow Benelux N. V., Terneuzen, The Netherlands  
Neste Oil Refining, OY Technology Centre, Porvoo, Finland  
Degussa AG, Inorganic Chemical, Product Division, Frankfurt am Main, Germany  
Institute Francais du Petrole, Rueil-Malmaison, France  
Süd-Chemie AG, München, Germany  
Hoechst AG, Frankfurt am Main, Germany  
Shell Development Co., Westhollow Research Center, Houston, TX, USA  
BP Research America, Cleveland, OH, USA  
The PQ Co., Valley Forge, PA, USA  
Akzo Chemical International B.V., Amersfort, The Netherlands  
W. R. Grace & Co., European Darex Division, Worms, Germany  
W. R. Grace & Co., Research Division, Columbia, MD, USA  
BASF Hungaria Ltd., Budapest, Hungary  
UOP, Des Plaines, IL, USA  
Air Products and Chemicals, Inc., Allentown, NJ, USA  
Catalytica, Montain View, CA, USA  
Strem Chemicals, Inc., Newburyport, MA, USA  
Central Research Institute for Chemistry, Budapest, Hungary  
Hungarian Gas and Oil Co., Research Centre, Százhalombatta, Hungary  
Badacsony State Vine Co., Badacsony, Hungary  
Hollóháza Chinaware Corp., Hollóháza, Hungary

## GENERAL INFORMATION

### *Congress Site and Time:*

The 10th International Congress on Catalysis will be held at the Budapest Convention Centre through 19-24 July, 1992. The Opening Ceremony of the Congress will take place on 20 July, 1992 at 8.15 a.m.

A large parking place is available at the Convention Centre free of charge. Registration Desk located in the Main Lobby of the Convention Centre, will be open during the Congress

18 July, 1992 :	11.00 a.m. - 7.30 p.m.
19-24 July, 1992 :	8.00 a.m. - 6.00 p.m.

### *Registration*

Please complete and return the enclosed Registration Form (A), one for each person, at your earliest convenience to

Organizing Committee of the 10th ICC  
Professor L. Guzzi  
Institute of Isotopes  
P.O.Box 77, Budapest, Hungary  
H-1525

before 15 April, 1992 (reduced fee). If more Forms (A) are required, please use photocopies or ask for additional forms.

Pre-registration would help organizers to make efficient plans for the Congress. Naturally, however, on-site registration is also possible.

### *Registration Fee and Remittance*

*Congress participants with permanent Congress card payable in Swiss Francs (CHF) or equivalent currency:*

Before	15 April, 1992:	630 CHF
After	15 April, 1992:	700 CHF

### *Students* (certificate required):

Before	15 April, 1992:	350 CHF
After	15 April, 1992:	350 CHF

(Only Preprints, no Proceedings)

### *Accompanying participants (spouse, children) :*

Before	15 April, 1992:	175 CHF
After	15 April, 1992:	200 CHF

*One day registration* 100 CHF

The full registration fee includes Preprint Book (text of oral presentations and collection of one page abstracts for posters), Proceedings (including the text of plenary lectures and discussion at the oral presentations), Welcoming Reception at Budapest Convention Centre (19 July, 1992), admission to the Concert of the Symphonic Orchestra (21 July, 1992) and a weekly pass for Budapest public transportation during the Congress.

The registration fee for accompanying persons includes an invitation to the Welcoming Reception at Budapest Convention Centre (19 July, 1992), sightseeing tour in Budapest (20 July, 1992), Concert of the Symphonic Orchestra (21 July, 1992) and a weekly pass for Budapest public transportation during the Congress.

Additional social events are listed below and in Form (B). Participants are kindly requested to fill in Form (B) for **all events** they wish to attend (including those free of charge).

**Payment of the registration fee should be effected**

1) by a cheque drawn in favour of

10th ICC, Congress Department  
Budapest Convention Centre

and together with Registration Form (A) should be mailed to the address of the Organizing Committee.

**Personal cheque is not acceptable !**

2) by bank remittance:

Commercial and Credit Bank Ltd.  
Budapest Convention Centre  
10th ICC, Congress Department  
Account No.: NOVOTEL-BKK 214-95229 ICC  
Károly (Tanács) krt. 20  
Budapest, Hungary  
H-1052

You are kindly requested to mail **a copy of your bank-draft together with your Registration Form (A)** to the Organizing Committee. Please, clearly indicate your name and address on all money orders to ensure that the payment will be correctly registered.

**Cancellation, Refund**

Refund request must be submitted to the Budapest Convention Centre, Congress Department. The policy regarding refund of registration fees is as follows: for cancellation received before 1 June there will be a cancellation charge of CHF 100. No refund can be made for cancellations received after 1 June.

**Confirmation of Registration**

After receipt of the bank draft of your remittance, your registration will be confirmed and you will be notified by mail. In case of eventual loss in the mail, please enquire with the Organizing Committee, if you have not received information within one month.

**Accommodation**

The Organizing Committee entrusted MALEV Air Tours to arrange for accommodation for participants in hotels of various categories as well as in student hostels.

**Hotel price categories**

Category	Single room (CHF)	Double room (CHF)
5 star	270-294	340-430
4 star	150-250	185-305
3 star	100-140	135-180
Student Hostel	55/room	

Notice: Prices are per room per night with bath or shower, including breakfast, service and VAT. Student hostel is provided with 4 beds, private shower, and breakfast included.

For hotel reservation you must use Form (B) and after receipt of your Form (B) including the deposit, your accommodation will be confirmed.

Since only a certain number of hotel rooms have been reserved in each price category, MALEV Air Tours will deal with room reservations and deposits on a "first comes - first served" basis. If the preferred hotel category is not available, reservation will be made to provide another alternative.

Payment of hotel deposit [(Form (B))] should be effected by means of a cheque or credit card or bank remittance in favour of MALEV Air Tours. No personal cheques can be accepted.

Address of bank:

Credit Bank of Hungary SA  
Szabadság tér 5-6, Budapest, Hungary  
H-1053  
Account No:  
MHB 215-09009 HUBBA HU HB  
Program Number: 4009-05-19072

Cheques should be sent to:

MALEV Air Tours, Congress Department  
Roosevelt tér 2, Budapest, Hungary  
H-1054



Cancellations should be made in writing to the secretariat.

The amount of refund depending upon the date of cancellation is as follows:

cancellations received by 17 May, 1992: 75 % of the total amount will be refunded.

Cancellations received on or after 17 May, 1992: no refund.

Camping sites, which are rather crowded in summer, are available in the outskirts of Budapest. For details please contact directly the Hungarian Camping and Caravanning Club (H-1444 Budapest, P.O.Box 224). Phone: (36)-1-1336-536, or Camping Hárshegy (Budapest II., Hárshegy út 5-7). Phone: (36)-1-168-6260.

#### ***Letters of invitation***

The Organizing Committee of the 10th ICC will be pleased to send a letter of invitation to any scientist upon request. It should be understood, however, that such an invitation is only to help participants to raise travel funds or to obtain visa and is no commitment on part of the organizers to provide financial support.

You may request such a letter from:

10th International Congress on Catalysis

Chairman of the Organizing Committee, Professor László Guzzi (address above)

#### ***List of Participants***

List of participants with full address will be presented at Registration at the Budapest Convention Centre. Additional list for on-site registrants will be handed over at the end of the Congress. In Registration Form (A) please give your full address.

#### ***Preprint Book, Proceedings***

Soft-cover Preprint Book containing the full text of oral presentations and 1 page abstract of poster presentations will be issued before starting the Congress. Please indicate in your Registration Form (A) whether you would like the Preprint Book mailed to your address or received on site. Please remember if Preprint is lost in the mail, replacement will not be available.

Proceedings including the plenary lectures, full text of the oral presentations along with discussion and 4 page extended abstracts for posters will be surface mailed in the first half of 1993.

#### ***Language***

The working language of the Congress is English. Translation service will not be available.

#### ***Lunch***

Several facilities for quick lunch are available at Budapest Convention Centre and at Novotel. Detailed information can be obtained at the Registration Desk.

#### ***Exhibition***

Technical exhibition will be arranged in association with the Congress. All enquiries regarding participation in exhibition should be directed to

INTERART International Exhibition Contractor

Asztalos S. út 9-12

Budapest, Hungary

H-1087

Phone: (36)-1-113-1888

(36)-1-133-1930

Fax: (36)-1-133-6325

Telex: 22-7716

#### ***Advertisements***

Advertisements can be placed in the Final Programme of the Congress. For details please contact INTERART (see above).

## PRE- AND POST-CONGRESS SYMPOSIA

Various Symposia will be organized prior to and after the Congress. Those interested in attending these Symposia must contact person indicated below. Further information can be received upon request.

### PRE-CONGRESS SYMPOSIUM

#### CATALYSIS '2000: STRATEGY AND EXPECTATIONS

*Budapest Convention Centre*

*18 July, 1992, 3 p.m. - 19 July, 1992, 4 p.m.*

**Contact person:** Professor L. Guzzi  
Institute of Isotopes  
P. O. Box 77, Budapest, Hungary  
H-1525  
Phone: (36)-(1)-550-993  
Fax: (36)-(1)-565-045

Distinguished speakers from leading World Catalysis Companies as well as from Academia are invited to present their view on the future of catalysis science and technologies of the next century. The one day workshop including discussions will give an opportunity for the audience to have an insight into the new frontiers of catalysis.

### POST-CONGRESS SYMPOSIUM I.

#### THEORETICAL APPROACH TO CATALYSIS AT INTERFACES

*27 - 31 July, 1992, Krakow, Poland*

**Contact Person:** Dr. Malgorzata Witko  
IV International Symposium on  
Theoretical Approach to Catalysis at Interfaces  
Institute of Catalysis and Surface Chemistry  
ul. Niezapominajek,  
30 239 Krakow, Poland  
Phone: (48)-12-365737  
Telex: 0325702 ikat pl  
Fax: (48)-12-365281  
E-Mail: NCWITKO@PLKRCY11.EARN

The scientific programme will include a wide range of topics dealing with the quantum chemical approach of various surface and interface phenomena such as dynamics of solid surfaces, metal and metal oxide clusters, theoretical description of adsorption and chemical reaction, etc.

### POST-CONGRESS SYMPOSIUM II.

#### 1992 INTERNATIONAL SYMPOSIUM ON C<sub>1</sub> REACTIONS

*27 - 28 July, 1992, Vienna, Austria*

**Contact Person:** Ass. Prof. Johannes A. Lercher  
Technische Universität Wien  
Institut für Physikalische Chemie  
Getreidemarkt 9/156  
A - 1060 Vienna  
Austria  
Phone: (43)-222-58801-4970  
Fax: (43)-222-5874835

As in the past years the format of the meeting is intended to stimulate lively, open discussions in a relaxed atmosphere rather than formal paper presentations. During the two days eight presentations on fundamental as well as applied aspects of C<sub>1</sub> chemistry will be given, allowing maximum time for discussion and interaction.

### POST-CONGRESS SYMPOSIUM III.

#### SYMPOSIUM ON CHEMISTRY OF ADSORBED COMPLEXES (REACTION INTERMEDIATES) IN CATALYTIC REACTIONS

*27 - 29 July, 1992, Szeged, Hungary*

**Contact Person:** Professor F. Solymosi  
Institute of Solid State and Radiochemistry  
József Attila University  
P.O.Box 168  
Szeged, Hungary  
H-6701  
Phone: (36)-62-22-378  
Fax: (36)-62-22-378  
E-Mail: H3925REA@ELLA.HU

The purpose of the Symposium is to report recent progress relating to the chemistry of surface complexes formed in adsorption, coadsorption and catalytic reactions. Results obtained by in situ spectroscopy and other methods on the formation, location and reactivity of surface compounds (reaction intermediates) and their possible roles in catalytic reaction are of interest.

## SOCIAL EVENTS

For the social events either included in the programme or optional you are kindly requested to fill in Form (A) and mail it to the Organizing Committee including check or draft of bank remittance.

- Sunday 19 July, 6 p.m. Welcoming Reception  
sponsored by Engelhard Corporation  
Budapest Convention Centre, Pátria Hall  
(included in the registration)
- Tuesday 21 July, 8 p.m. Concert of the Symphonic Orchestra  
sponsored by the National Committee  
of Technological Development  
Budapest Convention Centre, Pátria Hall  
(included in the registration)
- Thursday 23 July, 8 p.m. Congress Banquet  
Cocktail hour at 7-8 p.m.  
Cost: CHF 70

## OPTIONAL PROGRAMMES

These tours have been designed by MALEV Air Tours.

Hopefully we can offer you many different aspects of Budapest and Hungary and make your visit unforgettable. While planning your programmes we took into consideration, that the time for congress participants is limited.

All tours include the service of multilingual guides and every effort will be made to provide commentary in the mother tongue for major language groups. Prices include all entry fees.

All tours are based on a minimum number of participants. If this number is not reached, alternative arrangements or a complete refund will be made upon your request.

Each day the buses will leave from the front of the Budapest Convention Centre.

### *Half-day programmes*

#### **BS - BUDAPEST SIGHTSEEING TOUR BY BUS**

20 July, 10 a.m. and 23 July, 3 p.m.

Three-hour sightseeing tour introducing the capital's most attractive features. The tour includes among others: Heroe's Square with its Millenium Monument, Matthias Church and the Fishermen's Bastion in the Castle area and the Gellért Hill, which offers a breathtaking panorama of the city.

Price/person CHF 25; Minimum number: 20 persons

#### **HD - HUNGARIAN DINNER WITH FOLKLORE SHOW**

20 July, 8 p.m.

Dinner in a typical Hungarian restaurant with folklore show.

Price/person CHF 58; Minimum number: 30 persons

#### **BM - BUDAPEST MUSEUMS**

21 July, 10 a.m.

National Museum - Coronation Regalia. Hungarian National Gallery - Gothic wooden statues and panel paintings of the 14th and 15th centuries. Gothic triptyches, Baroque and Renaissance art in Hungary and Central Europe. 19th century Hungarian painting. Refreshment in a famous Hungarian confectionery.

Price/person CHF 26; Minimum number: 20 persons

#### **ES - EXCURSION TO SZENTENDRE**

21 July, 10 a.m.

A half-day trip to Szentendre, into the picturesque small town with many fine monuments and museums, of which the famous Margit Kovács Ceramics Museum will be visited. Scenzen. Lunch included in the price.

Price/person CHF 50; Minimum number: 15 persons

**WH - ROUND TRIP IN WEST HUNGARY**  
 25 July, 1992 - 30 July 1992 (6 days, 5 nights)

Participants will visit the most interesting historical towns of Transdanubia. Short sightseeing tour in Győr. The city tour in Sopron - which is a picturesque town with significant medieval and baroque architecture - will be followed by a Hungarian lunch in a local restaurant. Dinner will be served in Sopron.

Overnight in Sopron.  
 On the second day of the trip, the guests will travel to Nagycenk where they will visit the beautiful castle and the Nagycenk Garden. The tour will be continued by a lunch and a sightseeing programme in Kőszeg. Then the group travels to Szombathely, where dinner will be served here.

Overnight in Szombathely.

On the third day of the tour, after breakfast the group takes part in a sightseeing programme in Szombathely and travels to Herend, where participants visit a local museum of the famous Herend Chinaware. The tour will be followed by a short sightseeing programme in Veszprém where the group has lunch.

Overnight in Tihany (Hotel Club Tihany).

For two days the guests have a rest at Lake Balaton with half board.

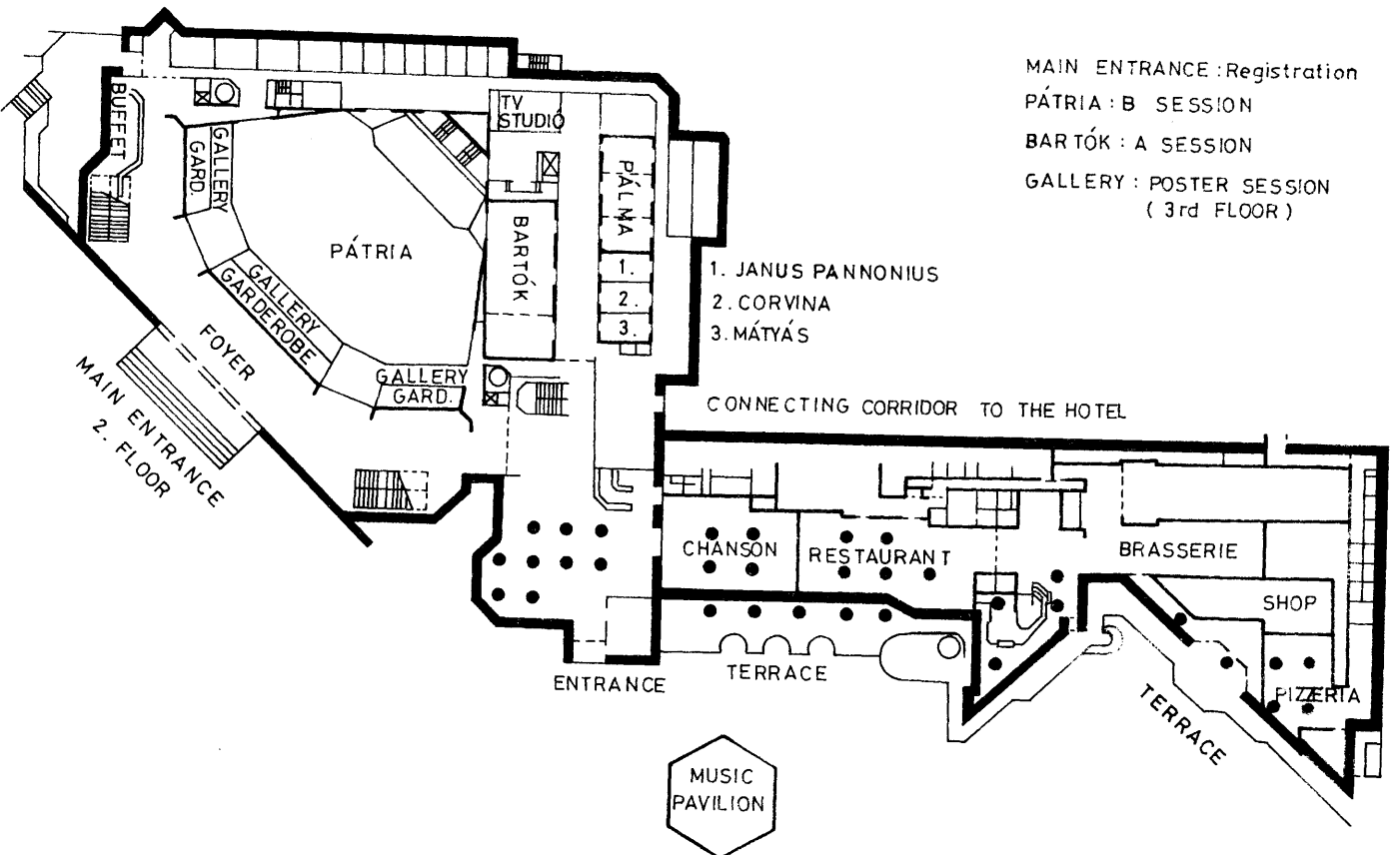
On the sixth day of the tour, after the breakfast the group travel to Budapest.

On the way the participants will come to a halt for a short call at Tác (Gorsium with roman relics) where lunch will be served.  
 Return to Budapest in the afternoon.

Price/person in a double-room CHF 675

Single-room supplement CHF 146

Minimum number: 15 persons



# SCHEDULE OF PROGRAMME

Time Date	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Sunday July 19	R E G I S T R A T I O N												Welcoming Reception		
Monday July 20	OPENING CEREMONY	PL	☺	A 1 Bartók				PL	☺	A 2 Bartók		POSTER I.			
				B 1 Pátria						B 2 Pátria					
Tuesday July 21		PL	☺	A 3 Bartók				A 4	☺	Bartók		POSTER I.	FREE TIME	CONCERT (Pátria)	
				B 3 Pátria				B 4	☺	Pátria					
Wednesday July 22		PL	☺	A 5 Bartók				A 6	☺	Bartók		POSTER II.			
				B 5 Pátria				B 6	☺	Pátria					
Thursday July 23		PL	☺	A 7 Bartók				POSTER II.		FREE TIME		COCTAIL HOUR	BANQUET (Pátria)		
				B 7 Pátria											
Friday July 24		PL	☺	A 8 Bartók				A 9	☺	Bartók	CLOSING CEREMONY (Pátria)				
				B 8 Pátria				B 9	☺	Patria					

**NOTES:**

WELCOMING RECEPTION – HALLS, PÁTRIA ROOM

OPENING CEREMONY – PÁTRIA ROOM

PL – PLENARY LECTURE (PÁTRIA ROOM)

POSTER I. AND POSTER II. (GALLERY)

A 1 MECHANISM, THEORY, IN-SITU METHODS  
A 2 CATALYTIC REACTION ON ATOMICALLY CLEAN SURFACE

A 3 NEW METHODS AND PRINCIPLES FOR CATALYST PREPARATION  
A 4 CHARACTERIZATION OF CATALYSTS, APPLICATION OF NOVEL TECHNIQUES

A 5 ACTIVE PHASE-SUPPORT INTERACTION, PROMOTER EFFECT  
A 6 NONTRADITIONAL CATALYTIC MATERIALS

A 7 ALKANE ACTIVATION  
A 8 NEW SELECTIVE CATALYTIC REACTIONS, FINE CHEMICALS

A 9 INDUSTRIAL CATALYSIS, DEACTIVATION, REACTIVATION

B 1 CHEMISTRY OF ZEOLITE CATALYSTS

B 2 CATALYTIC REACTIONS ON ZEOLITES AND RELATED SUBSTANCES

B 3 HYDROTREATMENT REACTIONS (HDS, HDN)

B 4 SELECTIVE OXIDATION

B 5 REACTION OF HYDROCARBONS

B 6 FUEL UPGRADING

B 7 ACID-BASE CATALYSIS

B 8 ENVIRONMENTAL CATALYSIS

B 9 SYNTHESIS FROM SYNGAS

Note:  
 PL: Plenary Session:  
 O: Oral Session:  
 P: Poster Session:

- A Session:  
 - B Session:

Pátria Room  
 Bartók Room  
 Pátria Room  
 Gallery

SCIENTIFIC PROGRAMME