



# บันทึกข้อความ

ส่วนราชการ

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เรื่อง HYDRO 2014 "Building on Recent Development Progress"  
CALL FOR PAPERS

เรียน อ.ส.มท, อ.ส.อช, อ.ส.นอ, อ.ส.วท

เพื่อติดตามความคืบหน้าของงาน  
ส่วนราชการของท่าน.

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(ไพเจน มากสุวรรณ)

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เรียน อ.ส.มท, อ.ส.อช, อ.ส.นอ, อ.ส.วท

เพื่อขอทราบความคืบหน้าของงาน

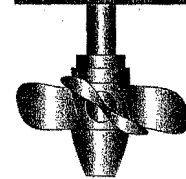
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Hydropower & Dams  
Aqua-Media International Ltd  
PO BOX 285, WALLINGTON, SURREY, SM6 6AN, UK  
Tel: + 44 (0)20 8773 7244 • Fax: + 44 (0)20 8773 7255  
Email: hydro2014@hydropower-dams.com  
Website: www.hydropower-dams.com

**HYDRO  
2014**



**Building on Recent  
Development  
Progress**

(Date as Postmark)

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**HYDRO 2014  
Building on Recent Development Progress  
CALL FOR PAPERS**

Dear Hydro Colleagues

We are pleased to enclose a copy of the Preliminary Bulletin and Call for Papers for HYDRO 2014, which will take place in northern Italy at a stunning location beside Lake Como.

As always, this will be the most international hydropower gathering of the year, with delegations present from all countries with significant hydro development programmes underway or planned.

Strong emphasis will be on helping the less developed countries to achieve their development goals, and on helping the industrialized countries to maximize the benefits of their hydro plants. As can be seen in this brochure, a wide range of topics will be covered in the technical sessions, panel discussions and inter-active workshops. We expect representatives from more than 80 countries, including all those with major development programmes under way (China, Vietnam, Laos, Malaysia, Bhutan, Iran, Russia, Ethiopia, Zambia, Mozambique, Brazil, Canada... and many others)

Our host country, Italy, has long-term experience of developing hydropower, the peak time having been in the 1960s, when some of the country's major schemes were constructed. Today the country is still within the world's top 15 producers of hydroelectricity (nearly 50 000 GWh/year). Current activities include upgrading, small hydro development and pumped storage. Post-conference tours, organized in collaboration with ENEL and ITCOLD, will provide a chance to visit some of the most interesting multipurpose dams and hydro plants.

A major technical exhibition will take place alongside the conference, and as usual a full social and cultural programme is being planned, to provide extra networking opportunities, as well as to bring everyone a taste of Italian culture, landscape, music and cuisine.

If you are a personal subscriber to *Hydropower & Dams*, you will be able to register at a reduced rate for HYDRO 2014. If you do not currently hold a subscription, it is well worth ordering one for the coming year, to take advantage of a substantial discount (see the subscription order form on the reverse side of this letter).

Regular updates about HYDRO 2014 will be posted on our website, published in *Hydropower & Dams*, and circulated by email in the coming months.

Abstracts are required by 14 February 2014, and we aim to publish the programme of accepted papers in June, after which registration will begin.

Please only submit an abstract if you intend to participate and present the paper.

We hope to have the pleasure of welcoming you to Cernobbio next October.

With kind regards

Alison Bartle  
Aqua-Media International  
on behalf of the  
HYDRO 2014 Management Team

นาย เลิศวิโรจน์ ไก่วัฒนสุข  
19/๑๐/๕๗

(นายเลิศวิโรจน์ ไก่วัฒนสุข)  
อ.ช.

**Building on Recent Development Progress ~ Cernobbio, Italy ~ 13 to 15 October 2014**

Subscribers are entitled to discounted registration fees at our conferences

Title(s) ..... First name ..... Last name .....

Organization ..... Position/Department .....

Address ..... Tel. (inc. area code) .....

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Your general field of interest (tick one box or more)

- Hydropower                       Dams                                       Water resources

Your organization's main activity (tick one box or more)

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Have you visited the H&D website (www.hydropower-dams.com)                       Frequently     Occasionally     Never

Are you interested in receiving details on the ASIA 2014 conference and exhibition (Colombo, Sri Lanka)                       Yes     No

Are you interested in receiving further details on the HYDRO 2014 conference and exhibition (Lake Como, Italy)                       Yes     No

Special notice for readers from the less developed countries: if you or your company meet certain criteria, you may be eligible to receive complimentary copies of the Journal, as part of our controlled circulation. Please contact the Subscription Manager for more details and an application form.

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Includes 6 journals per year, plus World Atlas(es) and Map(s) and other maps/posters published during the subscription period

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For further details, please visit us at: www.hydropower-dams.com

The Publisher reserves the right to update prices and amend exchange rates (updated October 2013)

# Call for Papers

**INTERNATIONAL CONFERENCE AND EXHIBITION**  
**13-15 October 2014 ~ Cernobbio (Lake Como), Italy**



## **BUILDING ON RECENT DEVELOPMENT PROGRESS**

Organized by:

THE INTERNATIONAL JOURNAL ON  
**HYDROPOWER  
& DAMS**

Supporting organizations include:



The pace of hydropower development worldwide is continuing to accelerate; recent progress has been substantial, and prospects are promising for the coming years. Hence, the theme of HYDRO 2014: Building on Recent Development Progress. The event will bring together planners, developers, owners, financiers, consultants and suppliers to discuss planned developments, the remaining challenges ahead, innovations in technology and the need to sustain momentum in hydropower implementation.

We have found an ideal meeting point in Europe: one of the most beautiful parts of Italy, close to the Swiss border, and with easy access from all parts of the world. Cernobbio is a short distance from the international airport of Milan, which connects with numerous cities worldwide. Italy is among Europe's main hydropower producers and has plenty of expertise to share in large and small hydro development, as well as pumped storage, and multipurpose dams. ENEL and the Italian National Committee on Large Dams are collaborating with us to plan study tours to some of the most interesting installations.



# THE AQUA~MEDIA HYDRO EVENTS

The annual events organized by Hydropower & Dams have become the world's most important gatherings held in Europe for the hydropower profession. HYDRO 2013, which took place in Innsbruck, Austria, in October, was the year's largest and most international event for the hydro profession, with more than 1450 participants representing 85 countries.

The main emphasis each year is on encouraging the advancement of carefully planned hydropower plants in the less developed countries of Africa and Asia, where there is vast unexploited potential, and the greatest need for new capacity. In Innsbruck it was generally acknowledged that much progress has been made in recent years.

The Technical Exhibitions provide a platform for powerplant owners, consultants and manufacturers to showcase the state-of-the-art of hydropower technology, research and consultancy services. The events are co-hosted by the national power authority of the host country, and supported by the major international and national energy and water-related professional associations, such as ICOLD, IEA, WEC, ICID, IWRA, ESHA and BHA, as well as the World Bank, African Development Bank, European Investment Bank, the Asian Development Bank and others.

Past events in this series have taken place in: Budapest (1994); Barcelona (1995); Lausanne, (1996); Portoroz (1997); Aix en Provence (1998); Gmunden (1999); Bern (2000); Riva del Garda (2001); Kiriš, (2002); Dubrovnik, (2003); Porto (2004); Villach (2005); Porto Carras (2006); Granada (2007); Ljubljana, (2008); Lyon (2009); Lisbon (2010); Prague (2011); Bilbao (2012) and Innsbruck (2013).

## HYDRO 2014 MISSION

Policy makers are today taking a much more positive and balanced view of the role and benefits of hydropower. The IEA predicts a doubling of hydropower capacity and production by 2030, and current trends indicate that this is achievable. Vast major regional projects (such as Inga) are taking off in Africa, and large-scale schemes continue in Asia. HYDRO 2014 will build on the tremendous progress which has been made in the planning and implementation of large and small hydro schemes, pumped-storage projects, and marine energy systems over the past few years.

These aims will be achieved through the presentation of papers carefully selected by the International Steering Committee, working closely with the H&D team, and by discussions among experts at a broad range of sessions, panel discussions and workshops.

## INTERNATIONAL EXCHANGE OF EXPERIENCE

We look forward to welcoming delegations from more than 85 countries, as well as high level representatives of the financial community, and the water-related professional associations.

As in previous years, the leading countries of the world for hydropower development, such as China, India, Bhutan, Russia, Iran, Vietnam, Malaysia, Brazil, Canada, Ethiopia, and many others, will be well represented.

## SESSIONS AND PANELS

Parallel sessions will be held on technical, financial/economic, and environmental/social aspects. There will also be regional sessions, and updates on some of the world's most important schemes under construction worldwide. Large and small hydro will be covered, along with associated civil engineering challenges. Interactive discussion will be encouraged through the panels and workshops.

## WHO SHOULD ATTEND?

- All those active in advancing world hydropower, through research, planning, project financing, design and construction, operation and maintenance, upgrading and refurbishment.
- Others advising on specialized aspects such as environmental protection, stakeholder dialogue, safety enhancement, software for planning, maximizing economic benefits.
- University lecturers and students. Those currently teaching and learning will ensure that hydropower expertise is sustainable, passed on to future generations, and accessible in all parts of the world.

### AMI HYDROPOWER FOUNDATION



The AMI Hydropower Foundation (to which revenue from each annual conference is transferred) was created to assist the participation of delegates from the less developed countries. This is an independent charitable foundation, governed by a board of international trustees. If you or your company would like to co-sponsor participants from one of the less developed countries, you can find more details about the Foundation on our website: [www.hydropower-dams.com](http://www.hydropower-dams.com)



## THE VENUE

The Hydropower & Dams team is delighted to be bringing the next major annual hydropower conference to a unique venue, beside Lake Como, in the northern Italian province of Lombardy. On the border with Switzerland, and located just 40 km (about 30 minutes by road) from the international airport of Milan, the Como/Cernobbio region will be easily accessible for delegates from all parts of the world.

Celebrated since ancient times for its great natural location, Como is considered to be the most dramatic and picturesque of the three Italian great lakes. Shaped like an inverted 'Y', the lake has three branches, which meet at Punta Spartivento (the 'Point that divides the Wind'). Of the lower two branches of the lake, the Ramo di Como (western Branch) is the most scenic, with the shores being studded with villas, gardens and small harbours and villages.

Cernobbio is a small commune in the province of Como, on the western side of the lake. It is famous for the grandiose villas built there between the 16th and 19th centuries, the best known of which is Villa d'Este, today one of the most luxurious hotels in the region.

One of the region's splendid villas, built in the 19th century, is Villa Erba, which has today been transformed, with the addition of a new wing, into a modern congress centre. This is where HYDRO 2014 will take place. Villa Erba has been owned in the past by the world-famous Italian film director, Luchino Visconti, and the villa and grounds have provided the setting for several films. Besides the traditional villa, where some small meetings and the speakers' and chairmen's reception will take place, the main Conference and Exhibition centre has a modern design, influenced by the antique greenhouses which were built alongside the lakeside villas.

## ACCOMMODATION

Rooms are being reserved for HYDRO 2014 participants at a number of selected hotels, in various categories, close to Villa Erba. Some will be in easy walking distance, and for others there will be a short journey across the lake. A 'shuttle boat' service is being arranged.

## SOCIAL PROGRAMME

A welcome reception will take place on the evening of 13 October, at an elegant venue close to Lake Como. This will be a relaxing opportunity to catch up with old friends, and to make new contacts. A light supper will be served.

An informal networking reception will be arranged in the exhibition halls, after the sessions on 14 October. This will provide an extra opportunity for delegates to meet the international exhibitors.

On 15 October there will be a farewell dinner, with music and entertainment. The evening will be planned to provide a memorable ending to the conference.

We will ensure that HYDRO 2014 delegates experience the best of Italian culture and cuisine.

## TOURS AND EXCURSIONS

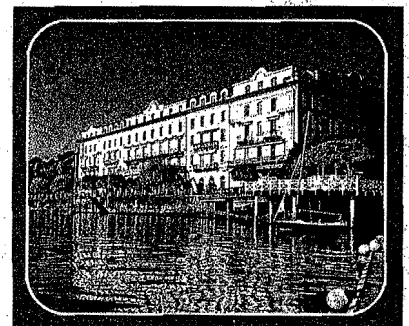
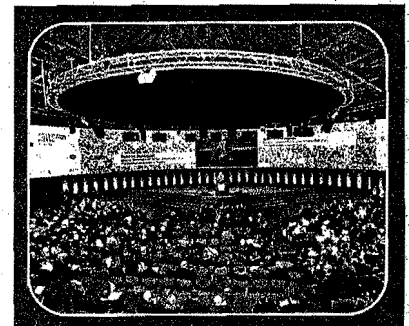
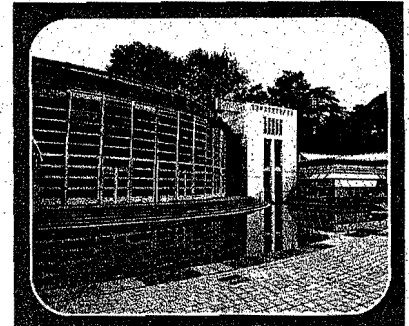
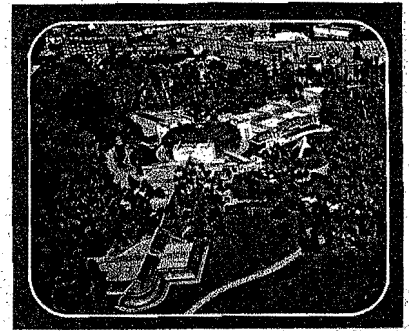
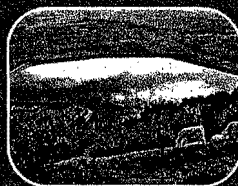
A pre-conference tour, available to all participants on the day of registration (Sunday 12th October) will provide an opportunity for local sightseeing, and to have lunch overlooking the spectacular Lake Como.

Accompanying persons will be offered three excursions (two half days and one full day) all including lunch. One trip will provide the opportunity to visit the small town of Bellagio, known as the 'pearl of the lake'. This little place enjoys an unrivalled setting at the point which divides the Como and Lecco branches of the lake. From Bellagio there are spectacular views of the mountains in all directions.

Post-conference technical study tours are being arranged in conjunction with ENEL, the Italian Committee on Large Dams, and power authorities in neighbouring Switzerland. It is planned to visit some pumped storage schemes, multipurpose dams, and large and small hydro plants both in Italy and Switzerland. Full details will be announced shortly.

### ITALIAN HYDROPOWER

Hydro was one of the main sources of power in Italy until the 1960s. Today, its share in the energy mix has decreased, but Italy is still the world's 14th largest producer of hydropower. The major hydro and pumped-storage schemes are: Entracque (1317 MW); Roncolgrande (1016 MW); Presenzano (1000 MW, shown right); and, Edelo (1000 MW). Today Italy's hydro capacity is 17 800 MW, contributing around 15 per cent of national electricity, about 50 000 GWh/year.



# MAIN THEMES

Papers are now invited on these, and related themes. Other topics may be suggested, for presentations or panels. (These are not final session titles.)



## Potential and development opportunities

- Regional policy in practice; implications for project development and operation
- Tools for planning
- Integrated regional development
- Cross-border power trading

## Project financing

- Management and allocation of risk
- Innovations in project finance
- Co-financing of schemes
- Complexities of public-private partnerships
- Legal and institutional aspects

## Commercial and economic aspects

- Economic analysis
- Legal and regulatory aspects; licensing hydro
- International contractual issues
- The CDM process: examples of accreditation
- Assessment of direct and ancillary hydro services

## Planning

- Interpretation of the Water Framework Directive by EU members
- System planning
- New developments in software
- Powerplant planning

## Communications and capacity building

- Improving communications/public relations
- Historical hydro: preserving cultural heritage
- Aesthetics of dams and hydro
- Inspiring the next generation of engineers
- Closing the knowledge gap

## Concession arrangements

- International experiences
- Roles of the public and private sectors
- Alternative concession models
- Selecting concession partners
- Securing value for hydro resources

## Environmental and social aspects

- Education in action; promoting hydro
- Cumulative impact assessment
- Learning from success stories
- Fish protection: innovative technology
- Stakeholder engagement

## Hydrology

- Gate safety
- Adaptation to climate change
- Extreme flood mitigation and management
- Appropriate spillway design

## Hydraulic machinery

- Research and innovation
- Equipment: research design and manufacture
- Environment-friendly design
- Operational issues
- Abrasion protection

## Hydro in synergy with other renewables

- Business models for renewables without subsidies
- Integrated developments: hydro/solar/hydro/wind

## System management

- Optimizing reservoir operation
- Software developments
- Operation and maintenance

## Small hydro development

- Assessing developing potential
- Latest innovative technologies
- Appropriate technology for rural electrification

## Developments in marine energy

- Tidal and wave power potential
- Research, development and innovation
- Operating experience
- In-stream/ultra low head systems

## The role and benefits of pumped storage

- Innovations in design, construction and rehabilitation
- New and competing storage technologies
- The role of pumped storage in power systems
- Regulations for and against pumped storage

## Upgrading and refurbishment

- Economic aspects
- Upgrading of equipment and civil works
- Retrofitting hydro and pumped storage units
- Enhancing environmental aspects

## Civil engineering

- Innovations in dam design
- Dams for multipurpose developments
- Construction materials
- Spillway design and operation
- Tunnels and underground works
- Assessing risk and designing for safety

## Modelling

- Hydraulic modelling of dams and spillways
- Machine efficiency
- Reservoir optimization and operation
- Modelling for upgrade schemes
- CFD, and advances in data processing

## Hydro project management

- On-site safety of the public and staff
- Site supervision
- Challenging site conditions

## Sedimentation management

- Advanced planning to avoid sedimentation
- Design case studies
- Sediment measurement techniques
- Sediment removal options

## Electrical engineering

- Grid management and stability
- Generator design
- Condition monitoring
- Smart grid technology

## INTERNATIONAL STEERING COMMITTEE INCLUDES:

S. Alam, France  
 J. Antunes Sobrinho, Brazil  
 I. Araki, Japan  
 A. Asake, Ethiopia  
 E. Bellendier, Russian Federation  
 L. Berga, Spain  
 A. Bergeret, France  
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 J.-M. Devernay, World Bank  
 M. De Vivo, ICOLD  
 F. Griffin, UK

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 Liu Heng, China  
 J. Freitas, Portugal  
 M.A. Gómez Balandra, Mexico  
 J. Gummer, Australia  
 C.R. Head, UK  
 F. Isambert, France  
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 P. Mason, UK  
 H. Kreuzer, Switzerland  
 T. Kunz, Switzerland  
 L. Mouvet, Switzerland

R. Lafitte, Switzerland  
 F. Lempérière, France  
 B. Leyland, New Zealand  
 Lin Chuxue, China  
 J. Polemón, Spain  
 N. and L. Nielsen, Australia  
 A. Nambre, Burkina Faso  
 A. Noorzad, Iran  
 A. Palmieri, Italy  
 B. Pelikan, Austria  
 B. Petry, The Netherlands  
 I. Phiri, Zambia  
 J. Plummer, UK  
 V. Radchenko, Russian Federation  
 P.J. Rae, USA  
 J.R. Rojas Morales, Costa Rica

F. C. da Rocha e Silva, Portugal  
 J. Rupčić, Croatia  
 Do Duc Quan, Vietnam  
 B. Skácel, Czech Republic  
 A. Schleiss, Switzerland  
 K. Seelos, Norway  
 J.-J. Simond, Switzerland  
 B. Tardieu, France  
 J. Thanopoulos, Greece  
 S. Tickodri-Taghwa, Uganda  
 B. Trouille, USA  
 C.V.J. Varma, India  
 J.G. Warnock, UK  
 M. Gospodjinski, ESHA  
 D.A. Williams, UK

# SUBMISSION OF ABSTRACTS

Abstracts of up to 800 words, in English, are now invited on the themes listed or related topics. Please email abstracts to the address below. A short CV of each author should be included.

Your abstract should summarize precisely the scope and content of the paper proposed. In the case of any project described, please mention its current status or date of completion. If the abstract is sent by email, please incorporate the author's name in the file name.

Please suggest the theme for which your paper would be best suited.

Please note that abstracts should only be submitted if the author would be able to attend the conference (or send a representative). Please obtain any necessary clearance, and check your availability to attend, before submitting the abstract.

If your paper is accepted, you will be asked to sign a form confirming willingness to attend; it is essential that we receive this undertaking before allocating time for an oral presentation.

If you have had a paper accepted in the past, and have not attended to present it, you may be asked to register before acceptance of your paper for HYDRO 2014 can be confirmed.

Speakers will be eligible for greatly reduced registration fees, which will include meals and social events during the conference. In the case of speakers from the less developed countries, in some exceptional circumstances we may be able to secure financial support to cover fees, but it is essential that we know this at the time when the abstract is submitted.

The deadline for receipt of abstracts is 14 February 2014. Authors will be notified by June 2014 whether or not their paper has been accepted for presentation, or for publication in the Proceedings.

Abstracts will generally be reviewed by two or more experts on our International Steering Committee, and you may be asked to modify some aspects of your proposed paper. As this review process takes some time, we urge you to submit abstracts promptly (if possible well before the final deadline).

Full papers will be required by 1 August 2014, and format guidelines will be sent to all authors whose papers are accepted.

A hard copy, PDF and word document of each final paper will be required.

Full details of the technical and social programmes, more information about the excursions, accommodation and registration fees, will be published in the Final Bulletin, which is scheduled for publication in June 2014. Regular updates will also be sent in PDF format.

## HYDROPOWER & DAMS

Meanwhile, information about HYDRO 2014 will be updated regularly in the *Journal Hydropower & Dams*, by email, and on our web site [www.hydropower-dams.com](http://www.hydropower-dams.com)

Subscribers to *Hydropower & Dams* will be eligible for reduced registration fees. You can subscribe now using the form within this brochure, or contact:

Maria Flintan at: [subs@hydropower-dams.com](mailto:subs@hydropower-dams.com)

## HYDRO 2014 ~ Building on Recent Development Progress Villa Erba, Cernobbio (Lake Como), Italy ~ 13-15 October 2014

- I am interested in attending the Conference and Exhibition as a delegate. Please send further details.
- I attach an abstract for consideration. If it is accepted, I or my representative will attend the conference to present the paper.
- I intend to submit an abstract by Friday 14 February 2014.
- My organization may wish to participate in the Exhibition. Please send further details.
- I am interested in sponsorship opportunities (coffee breaks, etc). Please send details.

Name: ..... Position/Dept: .....

Organization: .....

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Proposed paper topic: .....

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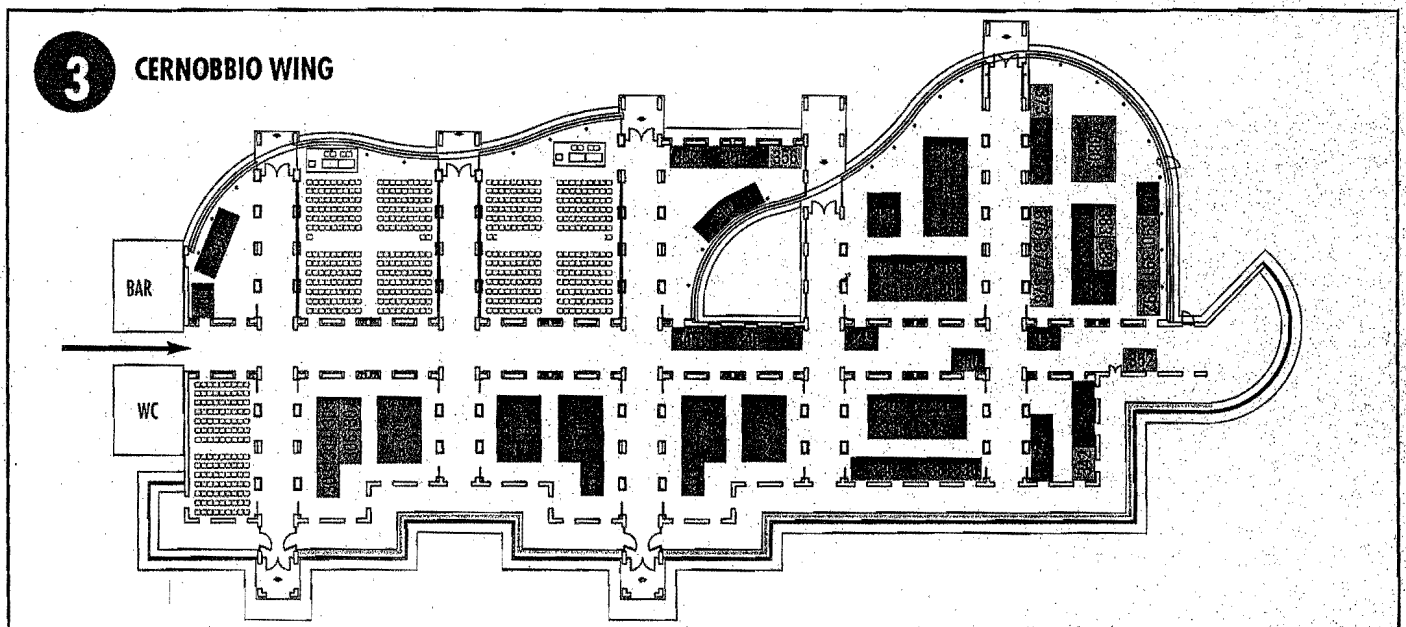
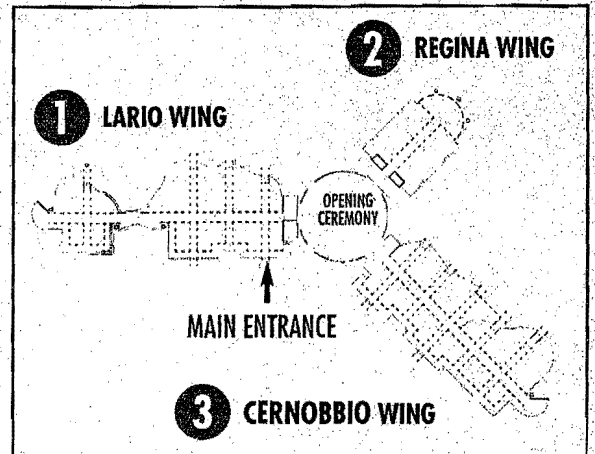
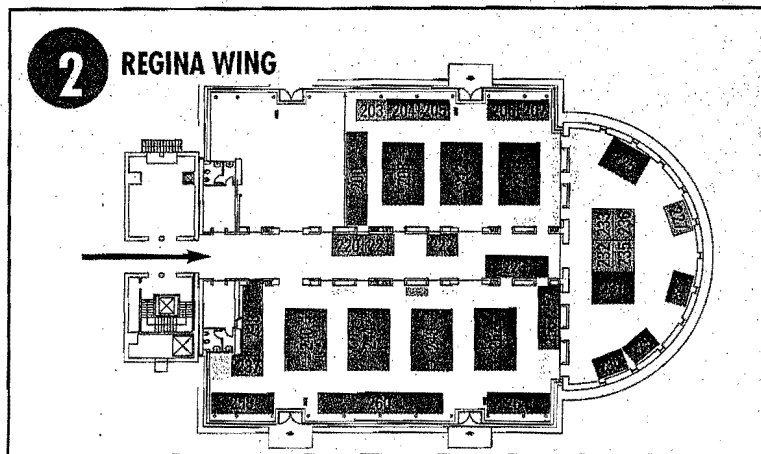
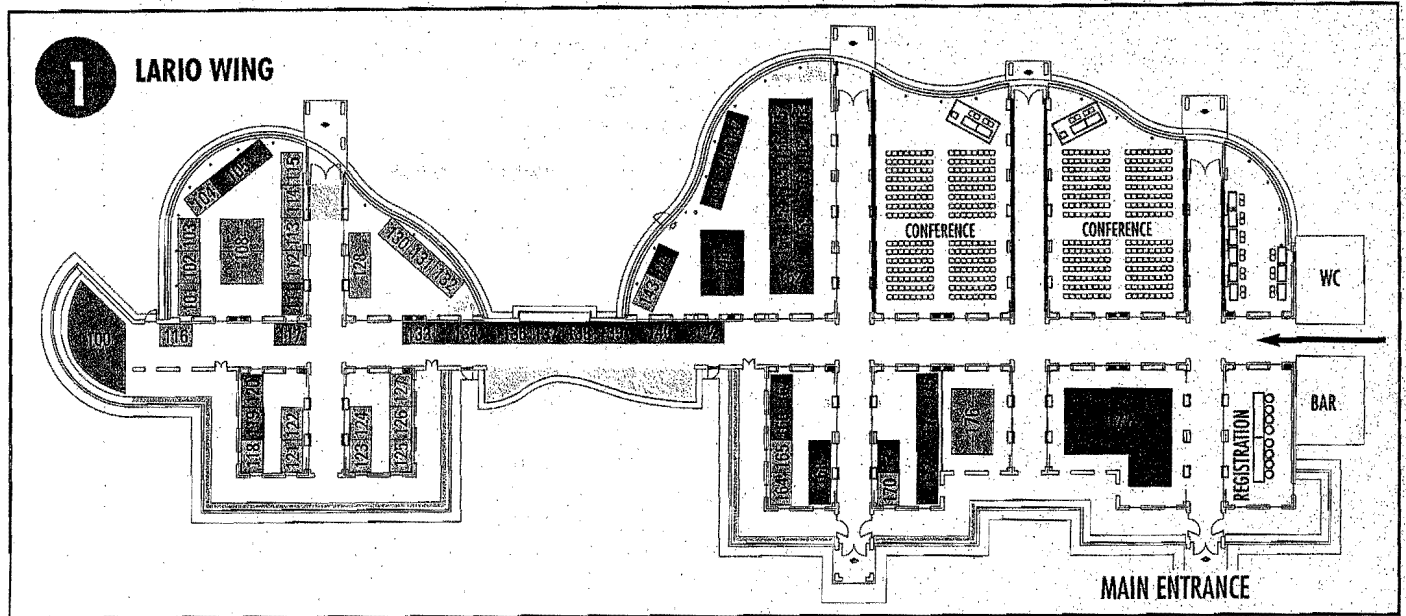
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All lunches and refreshments will be served in the exhibition halls, and there will be extended opening of the exhibition, with drinks and snacks, on 14 October.

The layout of Villa Erba is exceptionally favourable: the halls are on the same level, facilitating access to all areas by conference participants.

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