



**22nd European Regional Conference**

**ITAL-ICID**



**ICID-CIID**

**INTERNATIONAL COMMISSION  
ON IRRIGATION AND DRAINAGE**



**ERWG**



**Water Resources Management and Irrigation  
and Drainage Systems Development  
in the European Environment**

**Università di Pavia - Palazzo San Tommaso  
Piazza del Lino, 2  
Pavia - Italy**

**September 2 - 6, 2007**



**222<sup>nd</sup> European Regional Conference 2007**  
September 2-6, 2007, Pavia, Italy



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# 122<sup>nd</sup> European Regional Conference 2007

September 2-6, 2007, Pavia, Italy



SUNDAY, SEPTEMBER 2 <sup>nd</sup>	MONDAY, SEPTEMBER 3 <sup>rd</sup>	TUESDAY, SEPTEMBER 4 <sup>th</sup>
8.30 Conference Registration	8.30 Conference Registration	
10.30 - 13.00 Meetings of ERWG Work Bodies	9.00 - 10.00 Conference Opening	9.00 - 11.00 Parallel Sessions on Topics 1 to 4
	10.30 - 11.00 Coffee-break	11.00 - 11.30 Coffee-break
11.00 - 13.00 Workshop: History of Irrigation, Drainage and Flood Control	11.00 - 13.00 Plenary Session	11.30 - 13.00 Parallel Sessions on Topics 1 to 4
	13.00 - 14.30 Lunch	13.00 - 14.30 Lunch
14.30 - 16.00 Workshop: "History of Irrigation, Drainage and Flood Control"	14.30 - 16.00 Parallel Sessions on Topics 1 to 4	14.30 - 16.00 Parallel Sessions on Topics 1 to 4 and Poster Sessions
16.00 - 16.30 Coffee-break	16.00 - 16.30 Coffee-break	16.00 - 16.30 Coffee-break
16.30 - 18.00 Workshop: "History of Irrigation, Drainage and Flood Control"	16.30 - 18.30 Workshop: "EU Directives on Water Resources"	16.30 - 18.30 Parallel Sessions on Topics 1 to 4
		20.30 Social Dinner
WEDNESDAY, SEPTEMBER 5 <sup>th</sup>	THURSDAY, SEPTEMBER 6 <sup>th</sup>	
<b>TECHNICAL TOUR 1: Pavia -Vigevano</b>		
8.30 Departure from Pavia	9.00 - 11.00 Plenary Session	
18.30 Arrival to Pavia	11.00 - 11.30 Coffee-break	
<b>TECHNICAL TOUR 2: Pavia -Mantova</b>		
8.30 Departure from Pavia	11.30 - 12.30 Closing Ceremony	
18.30 Arrival to Pavia		



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**SUNDAY, SEPTEMBER 2<sup>nd</sup>**

- 8.30                    **Conference Registration**
- 10.30 - 13.00        **MEETINGS OF ERWG WORK BODIES (ROOM L2)**
- 11.00 - 13.00        **WORKSHOP: HISTORY OF IRRIGATION DRAINAGE AND FLOOD CONTROL**  
*Opening: F. D'Amico - R. Segura*
- An outlook to ancient waterworks in Turkey**  
*k. B. Celik*
- History of flood control in the area of the delta of river Vistula (Poland)**  
*P. Kowalik*
- Roman centuriation: shining example of integral land reclamation**  
*A. Linoli*
- 13.00 - 14.30        **Break**
- 14.30 - 16.00        **WORKSHOP: HISTORY OF IRRIGATION DRAINAGE AND FLOOD CONTROL (ROOM G1)**
- History of drainage steam pumping strations in the serbian province of Vojvodina**  
*S. Dragovic*
- Origin, tradition and decline of the organization of the ancestral irrigation systems in "La Alpujarra" Spain**  
*L. Mateos*
- Floods termal resorts due to construction or irrigating and water supplying systems**  
*M. Morales - C. Segura*
- Re-organisation of watersupply for towns In The mediaeval Hungary**  
*L. G. Hayde*
- 16.00 - 16.30        **Coffee-break**
- The mouth of the Tiber and the Isola Sacra**  
*A. Linoli*
- Water engineering in Al-Andalus**  
*J. Roldán Cañas*



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**For the history of reclamation and water use: Milan and its territory in the Middle Age**  
*G. Fantoni*

**Development of irrigation in the 19th and early 20th Century in Hungary**  
*L. G. Hayde*

**MONDAY, SEPTEMBER 3rd**

8.30 **Conference Registration**

9.00 - 10.00 **CONFERENCE OPENING AND WELCOME ADDRESSES**

10.30 - 11.00 **Coffee-break**

11.00 - 13.00 **PLENARY SESSION : KEYNOTE LECTURES(ROOM G1)**

**Topic 1:** *R. Feddes - R. Ragab*

**Topic 2:** *L. Ubertini*

**Topic 3:** *D. De Wrachien and C. Fassò*

**Topic 4:** *A.M. Martuccelli - A. Vidal*

13.00 - 14.30 **Lunch**

14.30 - 16.00 **PARALLEL SESSION ON TOPICS 1 TO 4**

**TOPIC 1 (ROOM G1)**

**IMPACT OF EXTREME HYDROLOGICAL EVENTS ON IRRIGATION AND DRAINAGE**

**Compatibility between traditional irrigation systems and the survival of fluvial ecosystems in the context of progressive contraction in the availability of water**  
*F. Bollini*

**Rainfall Changes: Preliminary Assessment of the Sensitivity of Nile River Flows Using a Distributed Rainfall – Runoff Modeling System**  
*M. Antar*

**Interactions between temporal variability of rainfall and irrigation methods in the Piemonte plains**  
*D. Canone*

**Drought risk estimation for sugar beet in the various agroclimatic regions of Poland on the soils of different useful soil water reserves**  
*L. Labedzki*



**TOPIC 2 (ROOM L5)**

**ENERGY SAVING TECHNOLOGY IN ADVANCED IRRIGATION SYSTEMS**

**Automation and control of irrigation on the Monti Berici hills**

*G. Bonaiti*

**Operation and Maintenance Requirements of Irrigation and Drainage Networks Projects to be considered in Feasibility, Final Design and Implementation Stages**

*S. Alireza Hosseinzadeh Tabrizi*

**On the possibility to irrigate effectively and automatically**

*Y. Kirkova*

**TOPIC 3 (ROOM G3)**

**CONJUNCTIVE USE OF SURFACE AND GROUNDWATER**

**Online soil water sensors for sustainable irrigation**

*P. Cepuder*

**Water requirements calculation for crops irrigated with the Adige River water**

*S. Rinaldo*

**Spatial representation of the Egyptian water system for decision support system modeling**

*F. Farag*

**TOPIC 4 (ROOM L2)**

**PARTICIPATORY MANAGEMENT AND ECONOMIC POLICIES FOR IRRIGATION AND DRAINAGE DEVELOPMENT**

**Role of consultation and information dissemination in sustainable development of agriculture in South Valley of Egypt**

*G. Shaden*

**Difficulties in development of irrigation and drainage during the transition process in Serbia**

*M. Borota*

**Agricultural activity in the southern regions of Alicante (Spain). A case study of competition among agriculture and other sectors for water and land uses**

*A. Ruiz Canales*



16.30 - 18.30

**WORKSHOP: EU DIRECTIVES ON WATER RESOURCES  
(ROOM G1)**

*Opening: M. Cutonilli - E. Luebbe*

**Public participation in the Finnish implementation of the Water Framework Directive**

*A. Lehtinen*

**Participatory approach in water resources planning: the Adda river basin pilot study**

*C. Gandolfi*

**Impact of European Framework Directive on water management in rural areas, the polish approach**

*W. Mioduszewski*

**Monitoring surface water bodies quality and suitability for irrigation**

*G. Bonaiti*

**International co-operation on flood management**

*V. Stasshuk*

**Model and software of a system assessing irrigation water quality**

*T. Simeonova*

**TUESDAY, SEPTEMBER 4th**

9.00 - 11.00

**PARALLEL SESSION ON TOPICS 1 TO 4**

**TOPIC 1 (ROOM G1)**

**IMPACT OF EXTREME HYDROLOGICAL EVENTS ON IRRIGATION AND DRAINAGE**

**Characteristic hydrologic curves for drought indicators**

*M. Carbone*

**Impact of extreme climate years on "Yield-Evapotranspiration" relative relationships**

*B. Mladenova*

**Mathematical model for multipurpose water resource management**

*M. Bellezza*

**Irrigation as a way to mitigate yield reduction due to droughts**

*L. Pérez*



**Irrigation scheduling under climate uncertainties in the thrace plain, South Bulgaria**

*Z. Popova*

**TOPIC 2 (ROOM L5)**

**ENERGY SAVING TECHNOLOGY IN ADVANCED IRRIGATION SYSTEMS**

**Use of the "Farneto del Principe" reservoir, currently used to supply the "Basso Esaro" irrigation system, to produce hydropower**

*G. Principato*

**Design and simulation of micro-irrigation network**

*L. Zella*

**On the necessity for further improvement in microirrigation scheduling**

*K. S. Koumanov*

**TOPIC 3 (ROOM G3)**

**CONJUNCTIVE USE OF SURFACE AND GROUNDWATER**

**Root water uptake modelling in the presence of surface and saline shallow water table**

*H. Ghamarnia*

**One objective procedure for the verification of the gross water requirements in the Piedmontese Irriguous Districts**

*C. Merlo*

**Conjunctive use of surface and groundwater as an opinion in the modernisation of irrigation schemes in the Guadalquivir Valley, Spain**

*I. Lorite*

**Investigation of reference evapotranspiration under the climatic conditions of Bulgaria**

*M. Moteva*

**Surge vs. continuous flow irrigation in capsicum crop**

*G. Ghianni*

**TOPIC 4 (ROOM L2)**

**PARTICIPATORY MANAGEMENT AND ECONOMIC POLICIES FOR IRRIGATION AND DRAINAGE DEVELOPMENT**





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**The decision support computer technology as the factor of operation system reforming for land reclamation in Russia**

*I. Yurchenko*

**Constraints of small scale irrigation management and research in Ethiopia**

*M. Loulseged*

**Harmonisation of water management and agricultural policies in Slovenia**

*M. Pintar*

**Transition to market economy and irrigation management in Russia**

*L. V. Kireycheva*

11.00 - 11.30 **Coffee-break**

11.30 - 13.00 **PARALLEL SESSION ON TOPICS 1 TO 4**

**TOPIC 1 (ROOM G1)**

**IMPACT OF EXTREME HYDROLOGICAL EVENTS ON IRRIGATION AND DRAINAGE**

**Risk analysis for mitigating drought impacts on an irrigation water supply system**

*V. Nicolosi*

**Investigation of meteorological drought in South Eastern Iran based on Spi and Markov Chain model**

*T. Raziei*

**Detection of trends and periodicities in long climatic series**

*L. Natale*

**Integrated land-use planning and utility analysis for the implementation of river correction in Switzerland**

*C.A. Vuillerat*

**TOPIC 2 (ROOM L5)**

**ENERGY SAVING TECHNOLOGY IN ADVANCED IRRIGATION SYSTEMS**

**Integrated use of surface and groundwater resources in irrigation**

*L. Tadic*



**Evaluation of on-farm irrigation scheduling: case study of drip irrigated potatoes in Southern Tunisia**

*K. Nagaz*

**The question of water efficiency from integrated water resources management approach**

*A. Hamdy*

### **TOPIC 3 (ROOM G3)**

#### **CONJUNCTIVE USE OF SURFACE AND GROUNDWATER**

**Soil water measurements with capacitance method**

*V. Zupanc*

**Integrated management of water resources in Piedmont: case study catchment basin of the Orco stream**

*F. Robotti*

**Assessment and simulation of water and nitrogen transfer under furrow irrigation: application of Hydrus2D model to simulate Nitrogen Transfer**

*Z. Popova*

**Water requirement evaluation for a rice crop irrigated with a water saving technique based on intermittent submersion and soil matric potential scheduling**

*L. Allavena*

### **TOPIC 4 (ROOM L2)**

#### **PARTICIPATORY MANAGEMENT AND ECONOMIC POLICIES FOR IRRIGATION AND DRAINAGE DEVELOPMENT**

**Water management plan of the consortium "Bonifica Parmigiana Moglia-Secchia" infrastructural and management strategies**

*S. Vera*

**Mitigation the environmental impacts of new Naga Hammadi Barrage (Egypt)**

*M.A.S. Wahba*

**Irrigation performance and farmers' perception before and after the rehabilitation of a small irrigation scheme in the Senegal Valley, Mauritania**

*L. Mateos*

13.00 - 14.30

**Lunch**



14.30 - 16.00

**PARALLEL SESSION ON TOPICS 1 TO 4**

**TOPIC 1 (ROOM G1)**

**IMPACT OF EXTREME HYDROLOGICAL EVENTS ON IRRIGATION AND DRAINAGE**

**Climate change impacts in the Guadalquivir river basin**

*J. A. Rodríguez Díaz*

**What is the real problem? Water management in the drained lakes of the Netherlands under the impact of climate and man induced changes**

*B. Schultz*

**Design and evaluation of saline irrigation schedules to cope with droughts and scarce fresh water**

*A. Tedeschi*

**Dry resistance evaluation of grass species**

*I. Vassileva*

**TOPIC 2 (ROOM L5)**

**ENERGY SAVING TECHNOLOGY IN ADVANCED IRRIGATION SYSTEMS**

**Irrigation water management using fresh and saline water: Modelling and Experimental Study SALTMED Model calibration and validation using fresh water.**

*H. N. Bassel*

**Evaluation of organomineral fertilizers in the fertigation trough drip system of coffee crops cultivated in the Brazilian Savannah**

*A. Fernandes*

**Water allocation management based on resource and energy saving principles**

*P.I. Kovalenko*

**TOPIC 3 (ROOM G3)**

**CONJUNCTIVE USE OF SURFACE AND GROUNDWATER**

**Factors adversely affecting the application of continuous flow in improved canals in Egypt**

*T El Gamal*



**Investigation of influence of water losses, due to seepage in irrigation systems with open canals**

*M. Zafirova*

**Decrease of outflow intensity of the drained agricultural land in spring region**

*M. Nechvátal*

**Yield stress model for irrigation optimization of sunflower cultivars grown under saline conditions**

*S.A. Ouda*

**Systems of irrigation able to use the water resource from superficial waters and from deep faults: application examples of studies and realizations**

*P. Burla*

#### **TOPIC 4 (ROOM L2)**

### **PARTICIPATORY MANAGEMENT AND ECONOMIC POLICIES FOR IRRIGATION AND DRAINAGE DEVELOPMENT**

**BCWUAs Assessment**

*K. Waseef*

**Sustainable water management practice in Shanghai**

*Z. Lu*

**Land drainage in Egypt: experience, success and future needs**

*M. H. Amer*

16.00 - 16.30

**Coffee-break**

16.30 - 18.30

### **PARALLEL SESSION ON TOPICS 1 TO 4**

#### **TOPIC 1 (ROOM G1)**

### **IMPACT OF EXTREME HYDROLOGICAL EVENTS ON IRRIGATION AND DRAINAGE**

**Hydraulic risk in Bentivoglio Enza Reclamation District**

*M. Fugazza*

**Transpiration under irrigation conditions in Romanian apple orchards**

*C. Paltineanu*

**Climate change impacts and adaptations for irrigated agriculture in England**

*E. K. Weatherhead*



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**Impact of climate and land use changes on water resources: example of Candelaro catchment, Apulia region, Southern Italy**

*D. R. D'Agostino*

**The features of irrigation in the South of Ukraine under conditions of global climate changes**

*M. Romashchenko*

**TOPIC 2 (ROOM L5)**

**ENERGY SAVING TECHNOLOGY IN ADVANCED IRRIGATION SYSTEMS**

**Needs and gaps in adoption of Micro Irrigation Systems in Ethiopia**

*L. G. K. Jeyakumar*

**About the photosynthetic solar radiation (PSR) efficiency in the agroecosystems**

*M. Moteva*

**Oasis or individual irrigation**

*J. Tadger*

**Integrating agricultural field monitoring, irrigation and climate control and gives traceability to growers, packers, buyers and investors**

*G. J. Pessl*

**TOPIC 3 (ROOM G3)**

**CONJUNCTIVE USE OF SURFACE AND GROUNDWATER**

**At the run-time of flow in irrigation channels**

*M. Zafirova*

**Combined use of superficial and subterranean waters for irrigation use in "Puglia" and in the Province of Bari**

*G. Mastropiero*

**Assessment of groundwater behaviour and management strategies in the Peri-Urban Area of Malir, Karachi, Pakistan**

*H.A. Bhatti*

**Performance of maize plants under different conditions of water supply and potassium fertilization**

*A.S. El-Noemani*



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**TOPIC 4 (ROOM L2)**  
**PARTICIPATORY MANAGEMENT AND ECONOMIC**  
**POLICIES FOR IRRIGATION AND DRAINAGE**  
**DEVELOPMENT**

**Quality aspects of the surface water used for irrigation in the Nertva Delta (Croatia)**

*D. Romić*

**Irrigation by mixed drainage water and micro-nutrients spray and its effects on micro-nutrients status in straw and grains of wheat**

*M. Hussein*

**Irrigation system control under uncertainty conditions**

*P. Kovalenko*

20.30 **SOCIAL DINNER**

**WENSDAY, SEPTEMBER 5th**

8.30 **TECHNICAL TOURS**

**THURSDAY, SEPTEMBER 6th**

9.00 - 11.00 **CLOSING SESSION AND GENERAL REMARKS(ROOM G1)**

**Topic 1:** *R. Feddes - R. Ragab*

**Topic 2:** *L. Ubertini*

**Topic 3:** *D. De Wrachien and C. Fassò*

**Topic 4:** *A.M. Martuccelli - A. Vidal*

11.00 - 11.30 **Coffee break**

11.30 - 12.30 **CLOSING CEREMONY**



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**TECHNICAL TOURS PROGRAMME**

**WEDNESDAY, SEPTEMBER, 5<sup>TH</sup>**

**TECHNICAL TOUR 1: PAVIA – VIGEVANO**

- 8,30 Departure from Pavia (Meeting point: Conference main Entrance at 8,15)
- 10,00/11,00 Guided Visit to Panperduto Diversion Dam in the Ticino River Park (Varese) and to the Est - Ticino Villoresi Irrigation and Land Reclamation Consortium
- 12,30 Arrival to the Mora Bassa Mill of the Est-Sesia Irrigation and Land Reclamation Consortium, in Vigevano and Lunch
- 13,30/14,00 Guided Visit to the Mill
- 15,00/15,30 Guided Visit to the Historical Archives of the Est-Sesia Irrigation and Land Reclamation Consortium
- 17,30 Departure to Pavia

**TECHNICAL TOUR 2: PAVIA - MANTOVA**

- 8,00 Departure form Pavia (Meeting point: Conference main Entrance at 8,15)
- 10,30 Visit to Moglia di Sermide and to the Terre dei Gonzaga Irrigation and Land Reclamation Consortium (Mantova)
- 12,30 Lunch
- 13,30/14,00 Visit to the Pumping station of the Consortium
- 15,00 Visit to the Lakes near Mantova and Mantova city tour.
- 17,00 Departure from Manta



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### **I N F O R M A T I O N**

#### **VENUE:**

University of Pavia – Palazzo San Tommaso  
Piazza del Lino 2 - Pavia

#### **SECRETARIAT HOURS:**

Sunday, Monday and Tuesday from 8,00 a.m. to 6,30 p.m  
Wednesday: closed  
Thursday: from 9,00 a.m to 12,30 p.m

#### **LUNCHEONS**

They will be served in the Secretariat Area on Monday and Tuesday.  
To enter the conference rooms and buffet you have to wear your badge

#### **SOCIAL DINNER**

Tuesday, September 4<sup>th</sup> – 8,30 p.m  
Cortile delle Magnolie  
University of Pavia Main Building – P.zza L. Da Vinci

#### **ACCOMPANYNG PERSON PROGRAMME**

##### **MONDAY 2<sup>nd</sup> SEPTEMBER – 10 A.M.**

Pavia Guided Tour - (Meeting point: Conference main entrance)

##### **TUESDAY 4<sup>th</sup> SEPTEMBER - 10,00 A.M**

Guided visit by bus to the Certosa Monument (Meeting point: Conference main entrance)

#### **AIRPORT SHUTTLES:**

**TO MALPENSA:** <http://www.malpensaexpress.it/ing/index.html>  
(the bus leaves from Milan: Central Station or Cadorna Station)

**TO LINATE:** <http://www.migliavaccabus.it>

**TRAIN INFO:** [www.trenitalia.com](http://www.trenitalia.com)

**TAXI:** Railway Station: Phone: 0382 27439 / Vittoria Square: Phone: 0382 29190  
Radiotaxi: Phone: 0382 576576

#### **POST-CONFERENCE CONTACTS**

PRAGMA CONGRESSI

Corso Mazzini, 9 - 27100 Pavia

Phone +39 0382 309579 / Fax +39 0382 304892 / E-mail: [congressi2@pragmacongressi.it](mailto:congressi2@pragmacongressi.it)





**SHOP-UP**  
UNIVERSITÀ DEGLI STUDI DI PAVIA

**The Merchandising Store of the University:**  
(Cortile dei Tassi – Corso Carlo Alberto 5)

It's located in the northern yards of the central buildings (see map above); here you can get many nice gifts with the prestigious logo of the world's oldest university



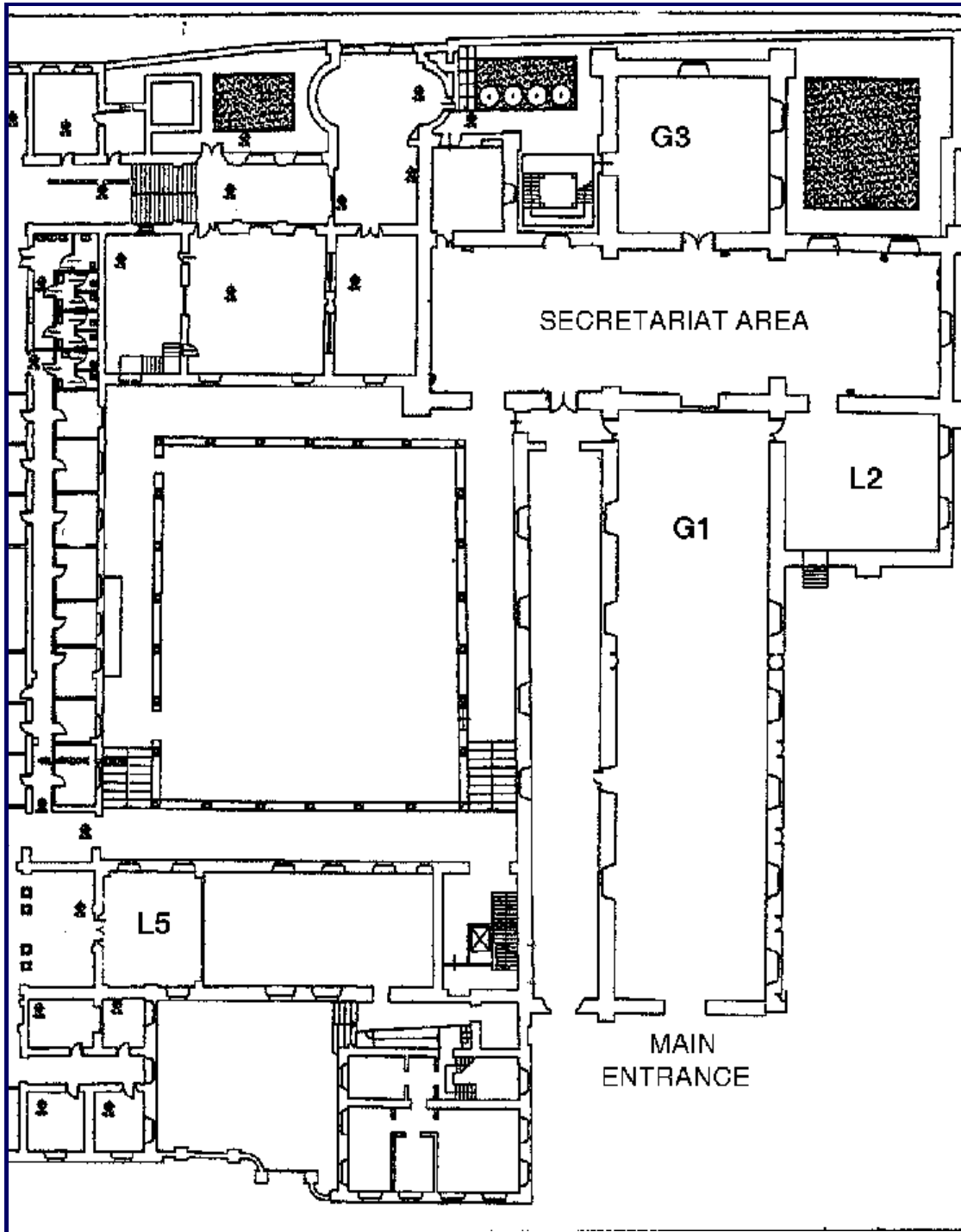
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### BRIEF HISTORY OF PAVIA AND ITS UNIVERSITY

Pavia is situated in the Ticino river banks at 35 km from Milan. During the Roman Empire it was called Ticinum, for the name of its river, and in the sixth century it became the capital of the Longobards kingdom. After a long siege Charlemagne conquered the city, which remained capital during the following Caroulingian and Saxon Empires, and several kings were crowned in Pavian St. Michael's church.

In 825 the emperor Lotarius founded at Pavia a School of Rhetoric and Law that would play an important role during the high Middle Ages. The Pavian juridical tradition continued in the successive centuries, and was connected to the philosopher and theologian Lanfranco from Pavia who became prior of the monastery of Le Bec in Normandy in 1045 and Archbishop of Canterbury in 1070 at the request of William the Conquerer.

The University of Pavia dates back to an act of foundation by Emperor Charles IV in 1361.

During the centuries the University of Pavia flourished and it was renowned for the great physicists, mathematicians, writers, and jurists who had studied and taught here such as Lorenzo Valla, Gerolamo Cardano, Cesare Beccaria and Alessandro Volta. However above all, the glory of the University of Pavia rested on the achievements of its biologists and physicians. Among them the most famous are Giovan Battista Carcano Leone, the discoverer of the foramen ovale and the ductus arteriosus in the fetal heart, Gaspare Aselli, the discoverer of the lymphatic system, Lazzaro Spallanzani, one of the founder of experimental biology, Antonio Scarpa, the great anatomist, Bartolomeo Panizza, the discoverer of the visual area in the occipital cortex, Camillo Golgi, one of the founder of the modern neuroscience, Enrico Sertoli, famous histologist, and the neurobiologists Adelchi Negri ("Negri bodies" of rabies), Carlo Martinotti ("Martinotti's cells" of the cerebral cortex), Vittorio Marchi ("Marchi's degeneration's method).



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MINISTERO DELLE POLITICHE AGRICOLE  
ALIMENTARI E FORESTALI



*Ministero delle Infrastrutture e dei Trasporti*



**Regione Lombardia**

*Agricoltura*



**Regione Lazio**



**U.R.B.I.M. Lombardia**  
*Unione Regionale Bonifiche Irrigazioni e  
Adattamenti Pionieri per la Lombardia*



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