

# MCH

## MAS in Collective Housing



POLITÉCNICA

ETH zürich

## APPLICATION PERIOD NOW OPEN

## STUDY TRIP 2017 ZÜRICH&NANTES

## LEED CERTIFICATION



ANNETTE GIGON



J. GARCÍA GERMÁN



ANDREA DEPLAZES



DIETMAR EBERLE



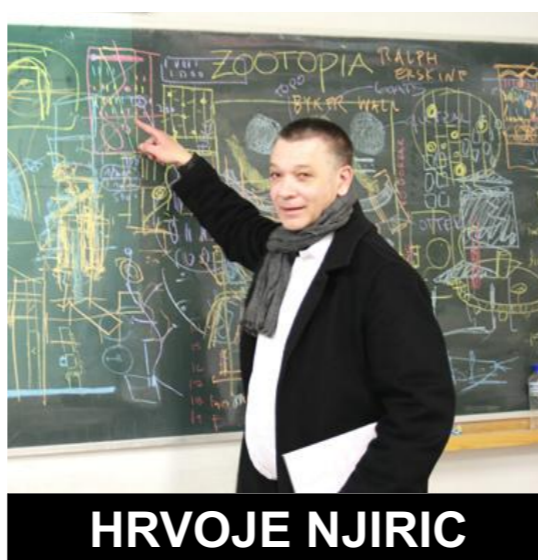
ANNA HERINGER



PATRICK GMÜR



CARMEN ESPEGEL



HRVOJE NJIRIC



BELÉN GESTO



V.M. LAMPUGNANI



ANNE LACATON



NEW DUAL-DEGREE WITH

ETH zürich

### ABOUT MCH

The Master of Advanced Studies in Collective Housing, MCH, is a postgraduate professional program of advanced architecture design focused on housing, city and energy studies.

Students from all nations are trained in city dwelling specialties and have demonstrated a high professional level, making important contributions in research projects, winning competitions or taking on leading roles in the most relevant architecture firms.

### INTERNATIONAL PRESTIGE

MCH has always committed to the highest level of excellence combining teachers of international prestige and a thorough participant selection process in order to make the best out of this course.

### BACKGROUND

In the past years, MCH has built a close relationship with great architects such as Dietmar Eberle, Felix Claus, Anne Lacaton, Frits van Dongen, Hrvoje Njiric, Juan Herreros, Dick van Gennep, Riken Yamamoto, Cino Zucchi, Jacob van Rij, Alejandro Aravena, Andrea Deplazes, Max Risselada or Wiel Arets, who are regular workshop leaders. It is the interaction between teachers and participants that generates the greatest results and production each year.

### MCH NETWORK

The thorough selection process of architects and the intensive experience in Madrid create bonds that are meant to last in time. With the help of MCH Alumni we put in contact participants of different editions to create the basis for research, knowledge and opportunity sharing.

### AIM AND OBJECTIVES

High Qualification  
The program consists of 600 hours (60 ECTS) from January to July, Monday through Friday, afternoon (16.00 to 21.00). During this time, it is strongly recommended a full-time dedication in order to develop and complete practical work.

### PROGRAM

The program is structured in one-week workshops, where participants will develop their design skills, and specialties, where they will complete their theoretical knowledge. These are as follows:

- Construction & Technology
- Business Management & International Activity
- Energy & Sustainability
- Housing Projects
- Sociology, Economy & Politics
- Low-Cost Housing
- Housing Theory + Residential Urban Planning
- City Sciences

All workshops and specialties are mandatory in order to receive the MCH Diploma.

### SPECIALTIES

Each specialty seminar is coordinated by a technical director who relies on a group of teachers and specialists from all over the world. Specialty seminars last 35 teaching hours approximately. In any case, the approach is basically practical and complementary information is given digitally or on paper.

### WORKSHOPS

The acquired concepts throughout the course are developed in a series of workshops led by well-known architects specialized in collective housing.

**MASTER'S PROJECT**  
Participants will have to deliver a master's project, which will have a portfolio format and will include a selection of the projects produced during the year. It will act as their new portfolio, which adds on to their previous projects.

**GUIDED TOURS AND TRIPS**  
There are planned trips in Madrid and abroad, where buildings and housing-related institutions and universities will be visited accompanied by architects and/or experts.

### PROGRAM RULES

It is compulsory to attend everyday classes unless justified, e.g. medical assistance must be submitted to the Secretary's Office. Participants will have a maximum of 5 minutes to go in the classroom before the class starts. Once the lecturer has started, participants won't have access to the classroom until the break. Likewise, participants won't leave the class during a lecture. The use of mobile phones in the classroom is not permitted. Laptops will be turned off and closed during lectures. Smoking is not permitted inside the University buildings.

### MCH LIBRARY

There will be a library at participants' disposal. Books are to be used within the classroom, and taking them away will be considered a felony.

### ATTENDANCE

There will be a daily control of attendance. Participants will be asked to sign a sheet and signature controls will be done from time to time to avoid cheating. Signing the attendance sheet and leaving, or signing on someone else's behalf will be considered a felony.

**INFORMATION AND DATA**  
Additional supporting documents will be provided to all students periodically. Some teachers may not hand over written information about their conferences.

### WORKSHOPS

Every architect directing a workshop has total freedom of designing schedule objectives and organizing the working teams. There will be another teacher assisting them. The classroom is available to all students for teamwork during ETSAM working hours. MCH owns the right to manipulate and publish any project or work developed during the course.

**FINANCIAL AID COAM**  
MCH and COAM signed an agreement which grants 50% of three COAM collegiates.

### MCH UPM/ETH DIPLOMA

**STUDIES REQUIRED**  
To access the MCH postgraduate course you must hold a University Degree in Architecture or equivalent. Participants who haven't issued their diploma to the MCH Office will have to do so during the first two weeks of class.

- Photocopy of University Degree with the Apostille of The Hague Accords or a stamp of the Spanish Embassy in their country (all stamps must be original).
- Photocopy of Academic Transcripts for their Degree, also with the Apostille of The Hague Accords or a stamp of the Spanish Embassy in their country (all stamps must be original).
- Degrees, Certificates and Transcripts must be translated in Spanish.
- Spanish and EU students are exempt from these procedures. The former have to submit a photocopy of their University Degree and the latter a photocopy of their University Degree and Academic Transcript without the Apostille of The Hague Accords. All Degrees, Certificates and Transcripts must be translated in Spanish.

### ATTENDANCE

Participants are allowed to have a maximum of 5 absences, that must be documented and justified. If exceeded, the participant shall not receive the MCH Diploma.

### WORK SUBMITTAL

Participants are obliged to carry out all the work and projects proposed. These will have to be submitted within the established deadline and cannot extend it. The final deadline will take place at the MCH Office during the morning of the specified date. The level achieved by the participants after the course, personal interest shown and the quality of the work presented will be an essential part to receive the MCH Diploma.

**FULL EXPERIENCE**  
Participants will develop their design skills through an intensive series of workshops and complete their theoretical knowledge in specialty seminars. MCH is keen on teamwork because it is the way offices and research labs function today.

**OCCUPATION**  
Our main goal is the job placement of specialist professionals who can address global problems and take important roles in architecture offices, urban and landscape planning or making contributions in fields such as environmental science, emergency housing or critique of architecture.

**MEMBERS**  
With international faculty prominent across the breadth of the discipline, students benefit from the experience. We use to have over one hundred guest teachers every year.

**WORKSHOP LEADERS**  
Anne Lacaton, Dietmar Eberle, Andrea Deplazes, Hrvoje Njiric and Patrick Gmür have already confirmed their attendance at the next edition. Other brilliant architects like Felix Claus, Edzo Bindels, Jacob van Rij, Wiel Arets, Alejandro Aravena, Frits van Dongen, Juan Herreros, Cino Zucchi, Francisco Burgos, Gines Garrido, Heli Piñón, or José Morales were workshop leaders in previous editions. Each workshop leader is matched with a young local architect, who acts as teaching assistant.

**SPECIALTY DIRECTORS**  
Vittorio Magnago Lampugnani, Carmen Espegel, Javier García German and Salen Gesto have already confirmed their attendance for the 9th Edition. Dick van Gennep, Andrés Cánovas, María Teresa Diniz, Bernardo Vinyaza, Jesús Leal or Fernando León are some of the former specialty directors.

**GUEST PROFESSORS**  
Ryue Nishizawa, Vasa Perovic, Xavier Ferrás, Max Risselada, Roger Blümel, Rafael Moreno, Julien de Smedt, Victor López Coto, Blarke Ingels, Salvador Rueda, Antonio Lamela, Andrés Jaque, Rafael de la Hoz, César Luis Larrea, Luis Fernández Gallardo, Manuel Gausa, Carlos Ferrater, Antonio Vázquez de Castro, Coll y Leclerc, Aurelio Ferrero and Salvador Pérez Arroyo were MCH guest professors. This time we will be pleased to welcome Annette Gigon and Anna Heringer among others.

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### WORKSHOPS

One-week workshops offer participants a place to further develop the acquired knowledge during the year. During that week there is a chance of pace in which they take a break from the other specialists and intensify their work in the workshops to make the best out of it.

The topic and approach for every workshop is different and the methodology used by the invited architects is also meant to vary in order to give the participant a wide range of cases to learn from.

Each workshop consists of 25 teaching hours, although exceptions may occur. However, workshop leaders usually take their task as a full-day activity and spend more time than expected.

### SPECIALTIES

Each specialty seminar is coordinated by a technical director who relies on a group of teachers and specialists from all over the world.

**HOUSING PROJECTS**  
This specialty approaches the central issue of the course through the experience of professional architects that have made a significant contribution in the field of collective housing. The projects are explained regarding the intentions of the architect as well as the conditions that determined the different paths taken from the genesis to the realization of the building.

Participants will also study the experience of a number of classic cases in the history of housing, explained by some of today's greatest architects.

There will be special emphasis on the architect's role and the necessary tools to resolve common problems in the residential building process. The debate will define the integrated strategies when facing this kind of project.

**HOUSING THEORY**  
Based on the historical context of the 20th century housing, this course will analyze the different solutions of each time, figuring out the elements to recognize an architecture that stands away from trends and becomes a reference because of its universality.

Participants will develop their critique skills on the most relevant projects in the recent history of multi-family housing, through research and debate. Likewise, critique methods will be studied in depth to avoid superficial analysis and to be able to recognize a reasonable architecture.

**RESIDENTIAL URBAN PLANNING**  
The dwelling and the house: to speak and to think about what we could call "the dwelling discourse", is intimately and inevitably rooted in the deeper and more essential core of the architectural discipline. Implicit within the dwelling/project, there are to full genomes. An explicit one: to optimize the domestic space, and what could be obtained in and from it, and an embedded one: to participate a city/project and, viceversa, to translate it in so far as the city/project sets up essential conditions for future dwelling/projects (often without saying or knowing it, and only occasionally in an explicit way).

**LOW-COST HOUSING**  
Three fourths of the world's dwellings have been built without the presence of an architect or under any normative rule. This specialty seminar analyzes the essential shelter conditions under emergency conditions.

Based on a case study approach, customs and rules capable of generating an urban environment will be withdrawn. Likewise, a specific case will be developed under real circumstances.

Specialized researchers in the processes and architecture generated in these settlements will present their contributions in diverse locations during the last decades.

**CREDITS**  
TOTAL 60 ECTS

Workshops  
Workshop 1 2.5 ECTS  
Workshop 2 2.5 ECTS  
Workshop 3 2.5 ECTS  
Workshop 4 2.5 ECTS  
Workshop 5 2.5 ECTS  
Workshop 6 2.5 ECTS  
Workshop 7 2.5 ECTS

Specialties  
Housing Projects 3.5 ECTS  
Bus. Management 4.0 ECTS  
Energy & Sustain. 4.0 ECTS  
Housing Theory + Res. Urban Planning 8.0 ECTS  
Const. & Tech. 4.0 ECTS  
Low-Cost Housing 3.5 ECTS  
Sociol.Econ. & Pol. 3.0 ECTS  
City Science. 2.5 ECTS

Each credit point is associated to 25 studying-working hours.

### MCH STUDIO

Universidad Politécnica de Madrid, supported by its prestige and experience, offers a unique working space at the Escuela Técnica Superior de Arquitectura de Madrid, where MCH takes place.

Participants will have their own working space, personal attention and access to the university library, services, academic and cultural events.

The MCH Studio includes a WiFi network, plotter, A3 printers, scanners and foam cutters.

Students will have access to the IT Centre, located in the pabellón antiguo, X floor (floor -1) and to the Library, on 1st floor, in the same pavilion.

No paper, modelling material or ink cartridges will be supplied by the MCH office, unless previously agreed with the workshop leader or specialty director.

**ENERGY & SUSTAINABILITY**  
This module considers the discussion on thermodynamics and sustainability as an opportunity for architecture and urbanism to rethink its traditional apparatus: structure (spatial structure and built systems), performance (climate and use through time) and its connections and exchanges with the environment.

The aim of the course is to merge the scientific and technical knowledge with its cultural contextualization, these two tracks, the technological and the theoretical, will crosscut throughout the course to transmit a critical perspective on energy and sustainability that can propel effective applications on design.

The module overlaps seminar and studio work, offering the possibility to implement the theoretical ideas discussed during the seminar as design tools. It includes an array of guest professors - featuring not only the design fields but other disciplines such as physics, biology, ecology and applied engineering - among which speculative debate is fostered.

**BUSINESS MANAGEMENT & INTERNATIONAL ACTIVITY**

The knowledge of management tools is an important factor that determines the quality of the education that this course offers. By these means, the architect not only becomes the project designer, but also the economic manager.

Participants will learn basic concepts of management such as value, cost, price and time, which will help add realism to their architecture proposals and be part of the economic debate in the building process.

This specialty is enclosed in a context determined by globalization and deals with the experience of professional architects and companies that have spread their activity worldwide.

**CONSTRUCTION & TECHNOLOGY**  
The aim of this course is to analyze the building as a physical system within the technical and integration systems in the design process. The theory is focused on the description of the main solutions given by architects in their most relevant buildings and the analysis of the different technical systems that make up the building.

Highly experienced professionals in housing construction and design will transmit their experience and knowledge in these fields.

### SOCIOLOGY, ECONOMY & POLITICS

This course, which is subdivided into three specialties, deals with housing from the disciplines that complement the other architecture-related fields. The scope of work of the three disciplines is tightly related, overlapping each other in many cases.

Sociology will include the study of three other specialties: demand and characteristics, evolution and changes in households, typology and land use development, among others.

Economy will study financing and valuation, the economic impact on housing production, house emancipation and youth housing, patrimony and investment, among others.

**CITY SCIENCES**  
Cities will attract 2.5 billion of inhabitants by 2050 as stated in 2014 by the Population Division of the UN Department of Economic and Social Affairs. Thereby, cities will need an intensive housing development in the coming years. The key of this growth is being sustainable.

Cities are the natural ecosystem for architects but cities are a complex system difficult to be understood. This module provides the main tools to manage the complexity of the city backed by its twinned Master in City Sciences.

In past editions, MCH has established collaboration agreements with ETH Zurich, Architectural Association in London and TU Delft, fostering the interaction between teachers and students.

### GUIDED TOURS AND TRIPS

There are planned trips in Madrid and abroad, where buildings, subject of study, will be visited accompanied by architects and/or experts.

Travel costs as well as hotel reservations, visits and shuttle buses are included in the tuition fee (personal expenses are not).

In previous editions, MCH has travelled to The Netherlands, France, United Kingdom and Switzerland. In this trip participants will have a chance to experience at first hand some of the most relevant housing buildings, architecture offices and housing-related companies.

In past editions, MCH has established collaboration agreements with ETH Zurich, Architectural Association in London and TU Delft, fostering the interaction between teachers and students.



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SWISS FEDERAL INSTITUTE OF TECHNOLOGY ZÜRICH. DEPARTMENT OF ARCHITECTURE

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9th Edition. January - July 2017. Madrid, Spain

7 WORKSHOPS + 8 SPECIALTIES + MASTER'S PROJECT + STUDY TRIP

www.mchmaster.com

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