

## COLLOQUIUM BROCHURE

Vernacular architecture, in its formal diversity and ecological adaptations, embodies an exceptional mastery of the environment. It reveals a collective heritage, embodying the diversity and richness of natural, human and socio-cultural contexts. This architecture is the result of ancestral knowledge in the use of local materials and pure craft techniques. It is an authentic expression of the environment's potential, testifying to the deep bond between communities and their natural habitat.

The variability of vernacular architecture is clearly evident from region to region, influenced by the physical characteristics of the land (plains, mountains, desert, etc.), lifestyles (sedentary, transhumant, etc.), settlement patterns and the local availability of materials (stone, earth, wood, etc.). The construction techniques employed contribute to shaping extremely diverse and rich architectural landscapes, ranging from simple nomadic tents to solid sedentary homes, all the while adapting to the challenges of the terrain, the rigors of climate and the scarcity of natural resources.

Internationally recognized for its particularity and uniqueness, vernacular architecture has been the subject of numerous international charters and has captured the interest of various authors and researchers. It has inspired architectural movements and mobilized many players in the field of territorial development and marketing. This craze has enriched our understanding of vernacular architecture, particularly its characteristics and formal typologies, as well as the approaches and methods used to analyze its productions. These studies address both the material and immaterial, natural and human, technical and aesthetic dimensions of this field.

Vernacular architecture, characterized by its virtuosity, ingenuity, technicality and flexibility, has regained interest for its advantages in terms of thermal comfort, resource savings and harmony with the environment, while meeting contemporary requirements. Emblematic architects of the modern movement such as Frank Lloyd Wright, Le Corbusier and Alvar Aalto, as well as more recent figures such as Hassan Fathy and Luis Barragán, have drawn inspiration from this architecture to create a “new vernacular architecture”. This revival, based on artisanal production, demonstrates the continuity of traditions adapted to today's needs.

Vernacular architecture attracts by its adaptability and continuous evolution. It presents itself as a passive solution, maximizing the use of sunlight and natural ventilation, while respecting site constraints and local know-how. It symbolizes an identity and a culture, while demonstrating resilience in the face of various environmental and climatic risks. Despite these qualities, the vulnerability of these structures to disasters such as earthquakes and floods underscores the intrinsic fragility of this heritage, which, while resilient, remains exposed to major risks.

In the face of threats of vulnerability, abandonment and destructive transformation, vernacular architecture in rural areas continues to symbolize a strong local identity. Its bioclimatic and ecological virtues remain a source of inspiration, despite the increasing standardization and globalization of architectural models. Taking an interest in this heritage also means contributing to the preservation and enhancement of the rural environment, fostering sustainable economic and human development. This heritage, rich in lessons on the rational use of traditional building materials and techniques, calls for restoration and rehabilitation strategies that aim not only for conservation, but also for the active integration of these buildings into the dynamics of local development.

From this argument stem four main areas of focus in which the multiple interventions should fit:

**Focus 1: Vernacular architecture: Richness and diversity of forms of expression**

**Focus 2: Vernacular architecture: restoration issues and revitalization challenges**

**Focus 3: Vernacular architecture: Natural risks and resilience**

**Focus 4: Vernacular architecture: A source of inspiration and a lever for development**

## COLLOQUIUM EXPECTATIONS

This scientific Colloquium, organized by the National School of Architecture of Rabat (ENA Rabat), in partnership with its Doctoral Studies Center “Architecture and related disciplines”, its research structure LabHAUT (Habitat, Architecture and Urbanization of Territories Laboratory) and its UNESCO Chair “Education and Research in Sustainable Bioclimatic Urban Planning and Architecture”, and in collaboration with the CNRST (National Center for Scientific Research), and the University of Le Havre Normandie, proposes to examine, on the one hand, the architectural production described as vernacular, appreciated for its diversity and richness, its specificities and singularities adapted to various environments and contexts. On the other hand, it will look at local building skills and techniques, analyzing their organization, use, adaptability, evolution and durability. By extension, this symposium explores the benefits and virtues of vernacular architecture in the field of eco-responsible practices and comfort, aiming to make it an invaluable source of inspiration for new construction.

It is also proposed to examine national and international experiences in protecting, restoring and rehabilitating this essential architectural heritage. Depending on the context, these rehabilitation initiatives are interpreted through various prisms, including a) the regulatory and institutional aspect, b) intervention and governance strategies and techniques, c) the social perception of this type of architecture. These interventions seek to preserve the authenticity of the structures while adapting the original architectural forms to contemporary requirements, thus balancing conservation and modernization.



Finally, the aim is to reveal the potential of vernacular architecture as a driving force for revitalization and territorial promotion. The transformation of these buildings into tourist attractions, places of natural beauty, and spaces of communion between man and the environment illustrates their growing appeal. These conversions, manifested in restaurants, bed & breakfasts or exhibition areas for local produce, testify to their successful integration into the local economy. This revival is sparking debate on the relationship between heritage and tourism, as well as on the interaction between terroir and globalization, highlighting the importance of these structures in contemporary development dynamics and providing inspiration for new forms of urbanization.

These are the major objectives behind the present international symposium on :« **Vernacular architecture, a support for territorial development** » .



AMPHI INAU	
9am to 9:30am	WELCOME AND REGISTRATION OF PARTICIPANTS
9:30am to 10am	<p><b>OPENING WORDS OF THE COLLOQUIUM</b></p> <ul style="list-style-type: none"> <li>-Note from the Director of the Rabat National School of Architecture</li> <li>-Note from the Secretary General of the Ministry of National Planning, Urban Development, Housing and Urban Policy</li> <li>-Note from the Director of the Centre National de Recherche Scientifique et Technique</li> <li>-Note from the President of the Université du Havre Normandie</li> <li>-Note from the Organizing Committee</li> </ul>
	<b>PLENARY SESSION 1 : Animated by: Pr Khalid El HARROUNI and Pr Satwant RIHAL</b>
10am to 10:15am	<p><b>Brahim EL FASSKAOUI</b>, Moulay Ismail University, Meknes, Morocco  <i>Igoudar and Qasbahs: the power, evanescence and renaissance of vernacular architecture in southern Morocco</i></p>
10:15am to 10:30am	<p><b>Ahmed SKOUNTI</b>, National Institute of Archaeology and Heritage Sciences (INSAP), Rabat, Morocco.  <i>Vernacular architecture and UNESCO World Heritage: preliminary considerations</i></p>
10:30am to 10:45am	<p><b>Tzvetelina DASKALOVA</b>, University of Architecture, Civil Engineering and Geodesy, Bulgaria.  <i>Bulgarian Renaissance Heritage in the Central Balkan Region</i></p>
10:45am to 11am	COFFEE-BREAK

ORAL PRESENTATIONS

**Focus 1 : Vernacular Architecture: Richness and diversity of forms of expression**

	<p><b>SESSION THEMATIC 1</b>                      Animated by Pr Mouna M'HAMMEDI</p> <p>Library Space , ENA RABAT</p>	<p><b>SESSION THEMATIC 2</b>                      Animated by Pr Ouafa MESSOUS et Pr Hicham MOULOUDI</p> <p>Salle 3 , ENA RABAT</p>
11:15am to 11:30am	<p><b>Karima BERDOUZ</b>  <b>Ouafa MESSOUS</b>  <b>Nezha TLEMÇANI MEKKAOU</b>                      National School of Architecture of Rabat, Morocco  <i>The vernacular façade as a contemporary urban challenge: the case of the Bâlima hotel in Rabat</i></p>	<p><b>Mylène KOKO ZOLA</b>  <b>Pascal KAMUFUENKETE LUVUMBU</b>                      Faculty of Architecture, Urban and Regional Planning, Kongo University  <b>Judith LE MAIRE</b>, La Cambre Horta Faculty of Architecture, Université Libre de Bruxelles (ULB), Belgium  <i>Vernacular architecture in the province of Central Kongo in the Democratic Republic of Congo (DR Congo): characteristics and dynamics of architectural production in the villages of Boko and Langa in Mbanza-Ngungu.</i></p>
11:30am to 11:45am	<p><b>Hassan RAMOU</b>, Institute of African Studies, Mohammed V University, Rabat, Morocco  <b>M'barek AIT ADDI</b>  <b>El-Mahfoud ASMHRI</b>, Royal Institute for Amazigh Culture, Rabat, Morocco  <i>Collective granary architecture in Morocco and Tunisia: typologies and adaptability to the environment</i></p>	<p><b>Kenza BELAHNECH</b>, Toulouse National School of Architecture, France  <i>The development of earth construction at the risk of vernacular building cultures - The case of Morocco in a post-earthquake context</i></p>
11:45am to 12am	<p><b>Loubna HRACHERRASS</b>, National School of Architecture of Fez, Morocco  <i>Laâzib: An architectural expression in dry stone: The case of the laâzibs of the Yagour plateau in the Moroccan High Atlas</i></p>	<p><b>Samia NAKKOUCH</b>, National School of Architecture of Rabat, Morocco  <i>Building cultures at risk: transformations of the Tazotas in the Doukkala region</i></p>
12am to 12:15am	<p><b>Majid MANSOUR</b>, National School of Architecture of Rabat, Morocco  <i>Ecological housing for nomads and transhumants in Morocco</i></p>	<p><b>Houda ZERRAF</b>, Regional Planning Department, Rabat, Morocco  <i>Housing in the rural douars of Al Haouz province: between tradition and modernity</i></p>
12:15am to 12:30am	<p><b>Frédéric FIRRERI</b>, Toulouse National School of Architecture, France                      Scholarly representations of vernacular architecture by the M.N.A.T.P. surveys from 1941 to 2001</p>	<p><b>Samba SOUMBOUNOU</b>, National Institute of Archaeology and Heritage Sciences (INSAP), Rabat, Morocco.  <i>Earthen architectural heritage in southern Mauritania: Art and wall paintings by the women of Guidimakha</i></p>
12:30am to 12:45am	<p><b>Jamal CHAHROU</b>  <b>Mohammed MAYOUSSI</b>  <b>Farid JAA</b>                      Sultane Moulay Slimane University, Béni Mellal, Morocco  <i>The Ait Bouguemez mountains in the central Moroccan High Atlas: A laboratory of vernacular architecture. An attempt at synthesis.</i></p>	<p><b>Salma MAJIDI</b>, National School of Architecture of Rabat, Morocco  <i>The similarities between Almohad architecture and the vernacular architecture of Marrakech</i>  <b>Mohameden CHEIKHANI</b>, Nouakchott, Mauritania  <i>Earth construction techniques in Mauritania, between past and present</i></p>
12:45am to 13pm	<p><b>Rime JIDA</b>  <b>Taieb BOUMEAZA</b>                      Hassan II University, Casablanca, Morocco  <i>Coastal vernacular architecture: A symbiosis between man and nature The case of the city of Tangier</i></p>	<p><b>Sara FARS</b>, National School of Architecture of Rabat, Morocco  <b>Chaymae BENBALLA</b>, National Institute of Urban Planning and Development (INAU), Rabat, Morocco  <b>Hicham MOULOUDI</b>  <b>Sanae ALJEM</b>                      National School of Architecture of Rabat, Morocco  <i>Vernacular architecture in intermediate spaces in Morocco: a climatic, functional and cultural challenge.</i></p>
13pm to 13:15pm	<p><b>Salma MAJIDI</b>  <b>Mouna M'HAMMEDI</b>                      National School of Architecture of Rabat, Morocco  <i>The similarities between Almohad architecture and the vernacular architecture of Marrakech</i></p>	<p><b>Ahonankpon Hubert Frédéric GBAGUIDI</b>, National University of Science, Technology, Engineering and Mathematics (UNSTIM), Abomey, Benin  <i>Architectural sovereignty at the heart of the sustainability of the vernacular architecture of the Ganvié palafittes on Lake Nokoué in Benin</i></p>
13:15pm to 14:30pm	LUNCH BREAK	



## ORAL PRESENTATIONS

### Focus 2 : Vernacular Architecture: restoration issues and revitalization challenges

<b>SESSION THEMATIC3</b> <b>Animated by Pr Assia LAMZAH</b>  <b>Salle 3 , ENA RABAT</b>	
<b>14:45pm to 15pm</b>	<b>Natalia JORQUERA SILVA</b> <b>Tomás SEPÚLVEDA SCHWEMBER</b> <i>University of La Serena, Chile</i> <b>The transformations of Andean vernacular housing in the arid north of Chile.</b>
<b>15pm to 15:15pm</b>	<b>Mouna SEDREDDINE</b> , <i>National School of Architecture of Fez, Morocco</i> <b>Vernacular architecture, between the sovereignty of the environment and the need for restoration: the case of the Meknès medina and the Ksar of Igoulmimen</b>
<b>15:15pm to 15:30pm</b>	<b>Mohamed FILALI</b> , <i>National School of Architecture of Rabat, Morocco</i> <b>Anass EZZAHIR</b> , <i>Laboratory for Research in Information Systems, Intelligent Systems and Mathematical Modeling, National Institute of Statistics and Applied Economics, Rabat, Morocco</i> <b>Tazotats: Vernacular Heritage, Thermal Storage Materials, and Heat Regulation in Arid Environments</b>
<b>15:30pm to 15:45pm</b>	<b>Alberto Pettineo</b> <b>Giovanni Pancani</b> <b>Sandro Parrinello</b> <i>University of Florence, Italy</i> <b>Advanced Survey Technologies for Moroccan Traditional Earthen Architecture: Documenting the Ksar of Tamnougalt</b>
<b>15:45pm to 16pm</b>	<b>Selma EL BERGUI</b> <b>Driss EL HACHMI</b> <b>Mohammed CHERRAJ</b> <b>Raja MOUSSAOUI</b> <i>Mohammed V University, Rabat, Morocco</i> <b>Evaluation of an approach to improve the sustainability of adobe in the restoration of historic monuments.</b>
<b>16pm to 16:15pm</b>	<b>Mehdi BOUKIL</b> <i>Travel Planner, Sidi Mohamed Ben Abdellah University, Fez, Morocco</i> <b>Restoration issues and the challenges of revitalising and converting medinas and historic monuments into cultural tourism: the cases of Fez and Tunis</b>
<b>16:15pm to 16:30pm</b>	<b>Oumaima KHLIFATI</b> <b>Khadija BABA</b> <b>Ilham MASROUR</b> <i>Mohammedia School of Engineering, Rabat, Morocco</i> <b>Rime EL HARROUNI</b> , <i>School of Architecture, Euro-Mediterranean University of Fés / Faculty of Architecture and Urban Planning, Mons, Belgium</i> <b>Abderrahman NOUNAH</b> , <i>Mohammedia School of Engineering, Rabat, Morocco</i> <b>Khalid EL HARROUNI</b> , <i>National School of Architecture of Fez, Morocco</i> <b>Advanced object detection for heritage preservation : A case study of Ouaouizerth and the Palace of Sultan Moulay Ismail</b>
<b>16:30pm to 16:45pm</b>	<b>Ilham MASROUR</b> <b>Khadija BABA</b> <b>Oumaima KHLIFATI</b> <b>Sana SIMOU</b> <i>Mohammedia School of Engineering, Rabat, Morocco</i> <b>Rime EL HARROUNI</b> , <i>School of Architecture, Euro-Mediterranean University of Fés / Faculty of Architecture and Urban Planning, Mons, Belgium</i> <b>Abderrahman NOUNAH</b> , <i>Mohammedia School of Engineering, Rabat, Morocco</i> <b>Khalid EL HARROUNI</b> , <i>National School of Architecture of Fez, Morocco</i> <b>Restoration of the Kasbah of Boulaouane : An Innovative Approach Using Eco-Friendly Geopolymer and Biopolymer Composite Materials</b>



## ORAL PRESENTATIONS

### Focus 3 : Vernacular Architecture: Natural risks and resilience

<b>SESSION THEMATIC 4</b> <b>Animated by Pr Sanae ALJEM et Pr Mohamed TAMIM</b>  <b>Library Space , ENA RABAT</b>	
<b>14:45pm to 15pm</b>	<b>Mouna M'HAMMEDI</b> <b>Zinab HIMEUR</b> <b>Meryem SEGTAN</b> <i>National School of Architecture of Rabat, Morocco</i> <b>Morocco's mountain heritage. Architecture at risk</b>
<b>15pm to 15:15pm</b>	<b>Adil MOUMANE</b> , <i>Ibn Tofail University, Kénitra, Morocco</i> <b>Ahmed KARMAOUI</b> , <i>Moulay Ismaïl University, FST, Errachidia, Morocco</i> <b>Jamal AL KARKOURI</b> , <i>Ibn Tofail University, Kénitra, Morocco</i> <b>Florine LACROIX</b> , <i>Vinezac, Rhône-Alpes, France</i> <b>Environmental Adaptations and Sustainability Challenges in Middle Draa Valley Indigenous Architecture, Morocco</b>
<b>15:15pm to 15:30pm</b>	<b>Nada EL MOADEN</b> , <i>National School of Architecture of Rabat, Morocco</i> <b>Vernacular architecture and seismic resilience: which techniques for which territories?</b>
<b>15:30pm to 15:45pm</b>	<b>Nezha TLEMÇANI MEKAOUI</b> <b>Ouafa MESSOUS</b> <b>Karima BERDOUZ</b> <i>National School of Architecture of Rabat, Morocco</i> <b>Al Haouz, vernacular architecture put to the earthquake hazard test</b>
<b>15:45pm to 16pm</b>	<b>Chaimae SALOUI</b> , <i>National Institute of Urban Planning and Development (INAU), Rabat, Morocco</i> <b>Natural risks and the resilience of vernacular architecture: the case of the old Medina in Larache</b>
<b>16pm to 16:15pm</b>	<b>Khalid EL HARROUNI</b> <b>Hassane KHARMICH</b> <b>Khadija KARIBI</b> <i>National School of Architecture of Rabat, Morocco</i> <b>Khadija BABA</b> , <i>Mohammedia School of Engineering, Rabat, Morocco</i> <b>Satwant RIHAL</b> , <i>University, San Luis Obispo, California</i> <b>Seismic Vulnerability of Vernacular Architectural Heritage in the Al Haouz Region of Morocco</b>
<b>16:15pm to 16:30pm</b>	<b>Siham EL RHARBI</b> , <i>National School of Architecture of Rabat, Morocco</i> <b>Fatimazahra SAAID</b> , <i>Ministry of Land Management, Urban Planning, Housing and Urban Policy, Rabat, Morocco</i> <b>The vernacular housing model of Al Haouz, lessons and promises for post-earthquake "reconstruction".</b>
<b>16:30pm to 16:45pm</b>	<b>Natalia JORQUERA SILVA</b> <b>Tomás SEPÚLVEDA SCHWEMBER</b> <i>University of La Serena, Chile</i> <b>Learning from seismic culture in the vernacular architecture of Tulahuén, Chile</b>
<b>16:45pm to 17pm</b>	<b>Soumia OUBAH</b> <b>Mohamed TAMIM</b> <i>National Institute of Urban Planning and Development (INAU), Rabat, Morocco</i> <b>Earthquake-resistant rural mountain housing: the case of Ouneine, Haut Atlas Occidental, Morocco</b>

## Library Space, ENA RABAT

	PLENARY SESSION 2 , Animated by Pr Khadija KARIBI
9:15am to 9:30am	Mohammed BEN ATTOU, <i>Ibn Zohr University, Agadir, Morocco</i> <i>The medinas of northern Morocco (Tangier, Tetouan, Larache, Ksar), where modernity is embedded in the vernacular: What do the words cover?</i>
9:30am to 9:45am	Samuel DEPRez, <i>Le Havre Normandie University, France</i> <i>Erasing the architectural and built identity of the Marais-Vernier: a chronicle of the suburban dream as an expression of consumer society</i>
9:45am to 10:15am	COFFEE-BREAK

## ORAL PRESENTATIONS

## Focus 4 : Vernacular Architecture: A source of inspiration and a lever for development

SESSION THEMATIC 5 Animated by Pr Majid MANSOUR et Pr Mouhcine BENAICHA Library Space , ENA RABAT	
10:15am to 10:30am	Tariq OUAHBI, <i>Le Havre Normandie University, France</i> <i>Raw Earth-based Geo-Building Materials: Challenges, Pathologies and Remedies</i>
10:30am to 10:45am	Islam GHARBI Mouhcine BENAICHA Hicham MOULOUDI <i>National School of Architecture of Rabat, Morocco</i> <i>Biobased materials and vernacular architecture: a bibliometric analysis of properties and recent developments</i>
10:45am to 11am	Nadya ROUIZEM, <i>ENSA Paris-Val de Seine, France</i> <i>Updating raw earthen architecture: Rabat, Paris</i>
11am to 11:15am	Zakaria ABYAA, <i>National School of Architecture of Rabat, Morocco</i> <i>The architecture of the Kasbahs and Ksour of southern Morocco between disintegration and enhancement: What perspectives and multi-scale approaches for a sustainable territorial design?</i>
11:15am to 11:30am	Ouafa MESSOUS Khadija KARIBI Karima BERDOUZ Nezha TLEMÇANI MEKAOUI <i>National School of Architecture of Rabat, Morocco</i> <i>Water networks and vernacular architecture: Ingenuity and sustainable management of a vital resource</i>
11:30am to 11:45am	Letizia DIPASQUALE Saverio MECCA Camilla MILETO Fernando VEGAS Maddalena ACHENZA Bakonirina RAKOTOMAMONJY Sebastien MORISET Mariana CORREIA <i>Florence University, Italy</i> <i>VerSus+, Heritage for People. Transmit vernacular knowledge and its contribution to sustainable architecture</i>
11:45am to 12am	Fatimazohra SAAID, <i>MATUHPV, Rabat, Morocco</i> Siham EL RHARBI, <i>National School of Architecture of Rabat, Morocco</i> <i>Modern architecture and the teachings of vernacular slum housing in Morocco</i>
12am to 12:15am	Youssef ZAKARIA, <i>Hassania School of Public Works, Casablanca, Morocco</i> Younes SALAMI, <i>National School of Architecture of Fez, Morocco</i> Reda JAAFRI Mounia FARAH <i>Mohammadia School of Engineering, Rabat, Morocco Casablanca, Morocco</i> <i>Modeling soil-structure interaction under seismic conditions using the macro-element technique</i>
12am to 12:15am	Association Terre à Terre asbl et Studio 21111, <i>Brussels, Belgium</i> <i>A Women's House for Imloul, Morocco</i>



<b>SESSION THEMATIC 6</b> <b>Animated by Pr Khadija BABA</b>  <b>Salle 3 , ENA RABAT</b>	
<b>10:15am to 10:30am</b>	Assia LAMZAH, <i>National School of Architecture of Rabat, Morocco</i> <i>Revisiting the Concept of Vernacular Architecture</i>
<b>10:30am to 10:45am</b>	Mohammed CHRACHMY Rajae GHIBATE Mohamed ECH-CHYKRY Ayoub SOULEH Abdeslam AKHDOUJE Najia ELHAMZAOU Hassan OUALLAL Mohamed AZROUR <i>Moulay Ismail University, FST, Errachidia, Morocco</i> <i>Drâa-Tafilalet Clay : A Strategic Pillar for Vernacular Architecture and Territorial Development</i>
<b>10:45am to 11am</b>	Consiglia MOCERINO, <i>Faculty of Architecture, Sapienza University of Rome, Italy</i> Abderrahim LAHMAR Mohamed AZROUR <i>Moulay Ismail University, FST, Errachidia, Morocco</i> Abdelilah LAHMAR, <i>University of Picardie Jules Verne, Amiens, France</i> <i>Towards resilient architecture in technological innovation</i>
<b>11am to 11:15am</b>	Letizia DIPASQUALE, <i>Florence University, Italy</i> Fabio FRATINI, <i>Italian National Research Council, Italy</i> Mounsif IBNOUSSINA, <i>Cadi Ayyad University, Marrakech, Morocco</i> Fatima Zahra EL ABBASSI Lamia HADDA Khaoula ADMOU Younes BAHAMMOU Fatiha BERROUG <i>Earth Building Techniques in the Draâ Valley: Enhancing Traditional Knowledge for Sustainable Habitats</i>
<b>11:15am to 11:30am</b>	Mahdi LECHHEB, <i>Moulay Ismail University, Errachidia, Morocco</i> Mohammed LAKRAT, <i>University Mohamed Ier, Oujda, Morocco</i> Mohamed CHRACHMY Meryem BEN BAAZIZ Hassan OUALLAL M'barek AZDOUZ Mohamed AZROUR <i>Moulay Ismail University, FST, Errachidia, Morocco</i> <i>Optimization of Mechanical and Thermal properties of clay bricks from Rissani-Morocco using Box-Behnken Experimental Design</i>
<b>11:30am to 11:45am</b>	Mohammed CHRACHMY Rajae GHIBATE Mohamed ECH-CHYKRY <i>Moulay Ismail University, FST, Errachidia, Morocco</i> Ayoub SOULEH, <i>Ecole Mohammedia des Ingénieurs, Rabat, Morocco</i> Abdeslam AKHDOUJE, <i>University Cadi Ayyad, Marrakech, Morocco</i> Najia ELHAMZAOU, <i>Moulay Ismail University, Meknès, Morocco</i> Meryem BEN BAAZIZ Hassan OUALLAL Mohamed AZROUR <i>Moulay Ismail University, FST, Errachidia, Morocco</i> <i>Optimization of Operational Parameters for the Manufacture of Construction Bricks: Design of Experiments and Artificial Intelligence Approach</i>
<b>11:45am to 12am</b>	Ayoub SOULEH Latifa OUADIF <i>Hassania School of Public Works, Casablanca, Morocco</i> Driss EL HACHMI, <i>University Mohammed V, Rabat, Morocco</i> Mohammed CHRACHMY, <i>University Moulay Ismail, FST, Errachidia, Morocco</i> <i>Optimizing Traditional Construction Materials in the Tafilalet Region of Morocco: Integrating Artificial Intelligence, Geotechnics, and Geophysics for Sustainable Building.</i>
<b>12am to 12:15am</b>	E. H. SEBBAR N. ERAZA Najma LAAROUSSI <i>Salé School of Technology, Salé, Morocco</i> A. AIT MSAAD, <i>Fez School of Technology, Fez, Morocco</i> Majid MANSOUR, <i>National School of Architecture of Rabat, Morocco</i> <i>Evaluation and modeling of a solar collector containing a thermal storage unit</i>
<b>12:15am to 12:30am</b>	Natalia JORQUERA SILVA Tomás SEPÚLVEDA SCHWEMBER <i>University of La Serena, Chile</i> <i>The transformations of Andean vernacular housing in the arid north of Chile</i>

	POSTER SESSION
<b>12:30am to 13pm</b>	<b>Rimane AMHAMEDI</b> , <i>National School of Architecture of Rabat, Morocco</i> <i>From vernacular to modern architecture in Morocco</i>
	<b>Johnson ANSAH ENU MARTIAL</b> , <i>National School of Architecture of Rabat, Morocco</i> <i>Vernacular architecture: a pragmatic, adaptable model for meeting the challenges of urban development</i>
	<b>Amal RIFFI</b> , <i>National School of Architecture of Rabat, Morocco</i> <i>Neo-Vernacular Architecture in Moroccan Rural Contexts: A Case Study of the mountain village of Moussaoua</i>
	<b>Ghislain NDONG NKOULOU</b> <b>Bhouvan Trésor FEUKENG FVOKENG</b> <i>National School of Public Works, Cameroun</i> <i>African bioclimatic architecture, an innovative response to development</i>
	<b>Alpha Sanoussy DIALO</b> , <i>National School of Architecture of Rabat, Morocco</i> <i>“Ver-naturel” or ‘verna-cru-laire’: the works of nature, the crucible of human representations</i>
	<b>Kossi Hubert VOWOGBE</b> , <i>ENSAM, Rabat, Morocco</i> <b>Yawo Fabrice Djidula SENOU</b> <b>Palakiyém KONGA</b> <b>Malankye Beni KARAN</b> <i>National School of Architecture of Marrakech, Morocco</i> <i>“Strengthening and Sustainability of Vernacular Architectures in the Face of Natural Risks and Global Warming</i>
	<b>Ghislain NDONG NKOULOU</b> <b>Bhouvan Trésor FEUKENG FVOKENG</b> <i>National School of Public Works, Cameroon</i> <i>African bioclimatic architecture, an innovative response to development</i>
<b>13pm</b>	<b>CLOSING OF THE COLLOQUIUM</b>

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# COLLOQUIUM COMMITTEES

## Coordinateur principal

- Pr Kharmich Hassane, Professor and researcher at National School of Architecture of Rabat

## Coordination Committee

- M. Ibnyahya Abdelhadi, Director of ENA Rabat
- Pr El Harrouni Khalid, Deputy Director of Research, CEDoc Director
- Pr Karibi Khadija, Scientific Coordinator of Doctoral Studies
- Mr Zerrad Youssef, SG of ENA Rabat
- Mrs Cherkaoui Ghizlane, Head of Communications, ENA Rabat
- Mrs Fars Sara, Phd Student , ENA Rabat
- Mrs Majidi Salma, Phd Student, ENA Rabat.

## Scientific Committee

- Pr Khadija Karibi, ENA Rabat
- Pr Khalid El Harrouni, ENA Rabat
- Pr Ouafa Messous, ENA Rabat
- Pr Mouna M'hammedi, ENA Rabat
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