

IMAGINE YOUR FUTURE, BUILD YOUR DREAMS: Architecture and Sea level rise, Design IV/2024 Fall

Tutor:	Associate Prof. Cuisong Qu
Number of participants:	15 Exchange students + 5 Tongji students
Studio Time:	Sept. 04 2024 to Nov.01 2023, Wed. 17:50-21:25 / Fri. 13:30-17:05
Studio Place:	B1
First Meeting:	Sept. 04 2024. 17:50-21:25

Introduction:

This design studio chose the ongoing international architectural student competition as the working topic, IMAGINE YOUR FUTURE, BUILD YOUR DREAMS, which is held by Jacques Rougerie Foundation, France. These innovative architectural projects ought to take place in either the ocean, guardian of our environmental and societal quality of life, or space, field of development and of technologic applications, unavoidable for the future of our civilization.

« Architecture and Sea level rise » award, **€ 10 000 prize**, the favorite option of our studio, has focus on coastline (swells, tides, currents, sea level rise, etc.), e.g. **the African coastline**. Below are the given descriptions:

President Mandela said in 1998 that Africa's long and beautiful coasts and abundant marine resources can contribute to improving the continent's economic, food and environmental security. Africa, being bordered by the Mediterranean Sea and the Red Sea to the north, the Atlantic Ocean to the west, the Indian Ocean to the east and the Southern Ocean at the southern end of the continent, is well endowed.

Among the major assets offered by the African oceans and coasts for the continent's economic, social and cultural development are:

- maritime transport of coastal and offshore oil and gas,
- transport and maritime trade,
- coastal and offshore mining,
- inshore and offshore fishing,
- biodiversity outside the imagination and enormous marine genetic and medicinal resources,
- seaside tourism

These marine and coastal resources, like the rest of Africa's environmental resources, continue to be exploited in ways that do not benefit Africa or its people. Challenges for Africa's coastal development include rising sea levels, coastal flooding and flooding, oil pollution and land-based pollution, coastal degradation including coastal erosion with loss of

coastal infrastructure and domains, loss of biodiversity and critical habitats. It is therefore becoming important to invent new forms of sustainable, open and resilient coastal cities through innovative architecture and locally adapted coastal engineering in Africa. The aim of this focus is to contribute both to the invention of the future with regard to the development of African coastal cities as well as the preservation of their intangible and tangible heritage.

Key words: Architectural innovation, bio-inspiration, sustainable development

Timeline:

Week 1-2:

- Conduct thorough research and literature review
- Develop a comprehensive strategy
- Formulate project teams
- Generate initial three concepts
- Gather relevant materials

Week 3-5:

- Refine project structure and direction
- Narrow down to a single idea
- Curate selected materials
- Prepare for a detailed midterm presentation

Week 6-8.5:

- Polish and finalize all project components
- Ensure coherence and alignment throughout the work
- Engage in the creation of final submission documents
- Craft the final presentation

Submission Requirements:

Documents to provide to the competition:

- 1 - A3 summary board in a free form that incorporates the downloadable template
- 2 - A0 summary board in a free form that incorporates the downloadable template
- 3 - Project Presentation File, A3 - 10 pages maximum
- 4 - Video or 3D animation, 1'30" max (optional)

Documents to submit as studio result: A0 summary board digital, A3 work book digital

Final presentation: Nov. 01 2024, 1 pages A0 summary board printed

Examples of laureates of 2021

