

## 後期 **新** 開講

国連大学高等研究所いしかわ・かなざわオペレーティング・ユニット (UNU-IAS OUIK) 講義  
(提供機関：金沢大学)

**Sustainable coasts: challenges and opportunities from tradition to modernity and local to global scales.**  
(沿岸域の持続可能性: その課題と解決機会～伝統から近代へ、地域から世界へと考える～)

### 担当教員名 Instructors :

あん・まくどなど (Anne McDonald), UNU-IAS OUIK 所長  
ジョアネス・ベルク (Joannes Berque), UNU-IAS OUIK 研究員  
ジュリウス・イブクン・アグブーラ (Julius Ibukun Agboola), UNU-IAS OUIK 研究員  
※専門に応じて、他の UNU-IAS の職員による招待講義もあります

単位数 Credit : 2 単位

授業曜日・時限 Day / Period : 木曜日 3 講時 17:30~19:00 教室 : しいのき迎賓館セミナールーム A

### 授業の概要 Outline :

Main pressures on coastal environment: overview of the science-base  
The local and Japanese perspective and relevance to the global debates  
Global issues: coastal zones in crisis around the world  
Positive developments and engaging in them: local and global possibilities  
The view from the youth: class projects in shaping local and global coastal environments

### 評価の割合 Grading criteria :

30% homework  
30% report on a topic of choice of the student  
40% class projects by a group of students on an issue of local/global coastal sustainability  
Note: all homework, report and class project can be in Japanese.

### 言語 Language : ※授業は英語で行います。

ただし、授業中の質問・宿題・レポート・グループワーク等は日本語でも構いません。

### 授業目標 Course objectives :

1. 沿岸持続可能性の問題について、地域やグローバルな視点から考察し、関連する科学的知識を習得すること。
2. それらの問題解決に向け、地域やグローバルなレベルで取り組む意思を高め、そのための知識や手段を習得すること。
3. グループワークの取り組みで得た専門知識を、具体的な活動（仕事、NPO、ボランティアなど）につなげる。

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## 授業概要 COURSE SYLLABUS

Main pressures on coastal environment: overview of the science-base

1. Overview and science-base of local coastal sustainability challenges: pollution, red tides, resources exploitation and habitat changes (Berque and/or Agboola)
2. Overview and science-base of the global coastal sustainability challenges: global warming and sea-level rise, global coastal and marine biodiversity issues (Berque and/or Agboola)

The local and Japanese perspective and relevance to the global debates

3. Culture and traditional use and management of coastal areas in Ishikawa: 七尾湾と舳倉島の里海 (McDonald)
4. Culture and traditional uses and management in Japan: fishing communities case studies around Japan (McDonald)
5. Relevance of the Japanese perspective to the global debate on conservation (Berque and/or McDonald)
6. Engaging in coastal conservation work in Kanazawa/Ishikawa: relevant government, non-governmental and business entities (Berque, McDonald and/or invited speaker as appropriate)

Global issues: coastal zones in crisis around the world

7. Coastal climate change and environmental challenges: developing countries perspective (Agboola)
8. Coastal climate change and environmental challenges: the global processes (IPPC) and key science, policy and international issues (Berque)

Positive developments and engaging in them: local and global possibilities

9. Sustainable energy options for coastal cities: marine and other appropriate renewable, global overview and local developments in Kanazawa/Ishikawa (Berque)
10. Enhancing biodiversity in and around coastal cities (McDonald, Berque and/or Agboola): key lessons and some success stories

11. Field: biodiversity enhancement successes within Ishikawa/Kanazawa (Invited speaker from 石川県・金沢市役所 or UNU-IAS).
12. Private sector contribution to sustainability: local success stories, lessons learned and some basics on those motivated to start up (Invited speakers and/or Berque)
13. Engaging in technical cooperation for more sustainable, climate-resilient coastal areas in developing countries: an overview and perspective for action for the up and coming youth (Agboola and/or Berque)

The view from the youth: class projects in shaping local and global coastal environments

14. Presentation of class projects by the students: local engagement
15. Presentation of class projects by the students: global engagement