

## **Seminar Internationale Wirtschaftsbeziehungen (VWLIII) Generalthema: Resource and Environmental Economics**

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Im Fokus stehen aktuelle Themen zu natürlichen Ressourcen und Umweltökonomik, die von den Teilnehmenden selbstständig erarbeitet und in einer lebendigen Präsentation ihren Kommilitonen näher gebracht werden sollen. Ziel des Seminars ist es, die TeilnehmerInnen zu einer selbstständigen Auseinandersetzung mit Modellen und Theorien aus dem Bereich der Ressourcen- und Umweltökonomik zu befähigen, die Lektüre und Auswertung wissenschaftlicher Beiträge einzuüben und die Darstellung und den Vortrag wissenschaftlicher Resultate zu trainieren. Grundlegende Kenntnisse Makro- sowie Mikroökonomischer Modelle werden vorausgesetzt. Das Seminar ist als Blockveranstaltung angesetzt, die Themen werden Anfang Semester ausgegeben.

### **Vorläufige Themenübersicht**

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|------------|--|
| 19.10.2018 | Kick-off Veranstaltung: Formalien, Grundlagen dynamischer Modellierung, Themenübersicht        |
| 07.12.2018 | Thema 1: Non-renewable Resources: Optimal Rate of Extraction, Mining, Fossil Fuels             |
| 07.12.2018 | Thema 2: Non-renewable Resources: Hotelling's Rule Revisited                                   |
| 07.12.2018 | Thema 3: Renewable Resources: Ownership and Property Rights, Tragedy of the Commons, Fisheries |
| 07.12.2018 | Thema 4: Renewable Resources: Groundwater and Aquifers   |
| 21.12.2018 | Thema 5: Pollution: Externalities and Coase Theorem  |
| 21.12.2018 | Thema 6: Pollution: Plastic Pollution  |
| 21.12.2018 | Thema 7: Evaluating Ecosystems: Oceans and Coastal Ecosystems, Conservation Areas              |
| 21.12.2018 | Thema 8: Evaluating Ecosystems: International Treaties and Public Policy                       |

**Detaillierte Literatur zu den einzelnen Themen**

Thema	Überblick	Weiterführende Literatur
1	Krautkraemer [1998], Dasgupta and Heal [1980] Chapter 6 & 10	Barma et al. [2011]
2	Gaudet [2007] (Hotelling [1931])	Devarajan and Fisher [1981]
3	Dasgupta and Heal [1980] Chapter 5, Grafton et al. [2004] Chapter 4	Brown [2000]
4	Grafton et al. [2004] Chapter 6	Postel [2000]
5	Phaneuf and Requate [2017] Chapter 3 (Coase [1960])	Chipman and Tian [2012]
6	Derraik [2002]	ten Brink et al. [2018] Vince and Hardesty [2017]
7	Krutilla [1967], Grafton et al. [2004] Chapter 8	Agardy et al. [2011]
8	Kolstad [2011] Chapter 19	Ostrom [2012]

**Literaturverzeichnis**

- Agardy, T., di Sciara, G. N. and Christie, P. [2011], ‘Mind the gap: Addressing the shortcomings of marine protected areas through large scale marine spatial planning’, *Marine Policy* **35**(2), 226–232.  
**URL:** <https://www.sciencedirect.com/science/article/pii/S0308597X10001740>
- Barna, N., Kaiser, K., Le, T. M. and Viñuela, L. [2011], *Rents to Riches?*, The World Bank.  
**URL:** <http://elibrary.worldbank.org/doi/book/10.1596/978-0-8213-8480-0>
- Brown, G. M. [2000], ‘Renewable Natural Resource Management and Use without Markets’, *Journal of Economic Literature* **38**(4), 875–914.  
**URL:** <http://pubs.aeaweb.org/doi/10.1257/jel.38.4.875>
- Chipman, J. S. and Tian, G. [2012], ‘Detrimental externalities, pollution rights, and the “Coase theorem”’, *Economic Theory* **49**(2), 309–327.  
**URL:** <http://link.springer.com/10.1007/s00199-011-0602-1>
- Coase, R. H. [1960], ‘The Problem of Social Cost’, *The Journal of Law & Economics* **3**, 1–44.  
**URL:** <https://www.jstor.org/stable/724810>
- Dasgupta, P. S. and Heal, G. M. [1980], *Economic Theory and Exhaustible Resources*, Cambridge University Press, Cambridge.  
**URL:** <http://ebooks.cambridge.org/ref/id/CBO9780511628375>
- Derraik, J. G. [2002], ‘The pollution of the marine environment by plastic debris: a review’, *Marine Pollution Bulletin* **44**(9), 842–852.  
**URL:** <https://www.sciencedirect.com/science/article/pii/S0025326X02002205>
- Devarajan, S. and Fisher, A. C. [1981], ‘Hotelling’s ‘Economics of Exhaustible Resources’: Fifty Years Later’, *Journal of Economic Literature* **19**(1), 65–73.  
**URL:** <https://www.jstor.org/stable/2724235>
- Gaudet, G. [2007], ‘Natural resource economics under the rule of Hotelling’, *Canadian Journal of Economics/Revue canadienne d’économique* **40**(4), 1033–1059.  
**URL:** <http://doi.wiley.com/10.1111/j.1365-2966.2007.00441.x>
- Grafton, R. Q., Adamowicz, W., Dupont, D., Nelson, H., Hill, R. J. and Renzetti, S. [2004], *The Economics of the Environment and Natural Resources*, Blackwell Publishing Ltd, Malden, MA, USA.  
**URL:** <http://doi.wiley.com/10.1002/9780470755464>
- Hotelling, H. [1931], ‘The Economics of Exhaustible Resources’, *Journal of Political Economy* **39**(2), 137–175.  
**URL:** <https://www.jstor.org/stable/1822328>
- Kolstad, C. D. [2011], *Environmental economics*, Oxford University Press.
- Krautkraemer, J. A. [1998], ‘Nonrenewable Resource Scarcity’, *Journal of Economic Literature* **36**(4), 2065–2107.  
**URL:** <https://www.jstor.org/stable/2565047>

Krutilla, J. V. [1967], 'Conservation Reconsidered', *The American Economic Review* **57**(4), 777–786.

**URL:** <https://www.jstor.org/stable/1815368>

Ostrom, E. [2012], 'Nested externalities and polycentric institutions: must we wait for global solutions to climate change before taking actions at other scales?', *Economic Theory* **49**(2), 353–369.

**URL:** <http://link.springer.com/10.1007/s00199-010-0558-6>

Phaneuf, D. J. and Requate, T. [2017], *A course in environmental economics : theory, policy, and practice*, Cambridge University Press, Cambridge, United Kingdom ; New York, NY, USA.

**URL:** <http://www.worldcat.org/title/course-in-environmental-economics-theory-policy-and-practice/oclc/960106612>

Postel, S. L. [2000], 'Entering an era of water scarcity: the challenges ahead', *Ecological Applications* **10**(4), 941–948.

ten Brink, P., Schweitzer, J.-P., Watkins, E., Janssens, C., De Smet, M., Leslie, H. and Galgani, F. [2018], 'Circular economy measures to keep plastics and their value in the economy, avoid waste and reduce marine litter', *Economics Discussion Papers* **3**.

**URL:** <https://www.econstor.eu/handle/10419/173128>

Vince, J. and Hardesty, B. D. [2017], 'Plastic pollution challenges in marine and coastal environments: from local to global governance', *Restoration Ecology* **25**(1), 123–128.

**URL:** <http://doi.wiley.com/10.1111/rec.12388>