

國立陽明大學科技與社會研究所 104 學年度第 1 學期
課程綱要

【開課系所】： 科技與社會研究所

【科目名稱】： 後殖民科技研究導論

Introduction to Postcolonial Science and Technology Studies

【授課教師】： 陳嘉新

【教學目標】：

本課程以後殖民科技研究的兩位主要學者 Warwick Anderson 與 Sandra Harding 的主張與論述為核心展開，分別討論殖民概念的反思與解構、中心與邊陲思维的對稱、本土與在地知識、科技與國家與現代性的關係，並且連接到具體的案例(瘧疾/蚊)與近來後進國的討論。預期的教學效果在於：

1. 教導學生理解後殖民思維與全球化現象在科技與醫療研究的展現。
2. 引導學生對稱性地分析科技與知識散布的中心與邊緣觀點。
3. 鼓勵學生運用課程所學思考在地科技與醫療，經由課程中對於後殖民概念的深化與問題化，重新省思科技議題當中的權力、移動與另一種想像/實踐的可能。

【授課方式】：

每次由任課老師對課程單元作綜合性介紹，學生輪流負責報告該週指定的教材。每位修課同學應在上課前將該週指定教材閱讀完畢，並於課堂上踴躍參與討論。每週負責報告閱讀文獻之同學，另需繳交該文獻之摘要（A4 一頁以內，建議格式宜包括主要論點、對話對象、論證方式、文章優點或啟發、文章缺點與批判五個主要部分）。其他未負責報告的同學則需繳交一至兩個問題與一段閱讀內文的中文翻譯(詳細段落另外在課中指定)。

【評量方式】

參與討論與課堂導讀：各 25 分，共占 50 分

期末報告:占 50 分

內容與形式說明: 期末報告字數要求為 8000-10000 字間，以本學期閱讀討論的內容為主，以自己研究旨趣為輔，可選擇撰寫一篇與自己研究相關的短論文，或者書寫一份讀書評論(review essay，書目需與授課老師討論)。

【主要參考書目】

Harding, Sandra. (2012) *Postcolonial Science and Technology Reader*. Durham, NC: Duke University Press. 圖書館有書

【授課進度】：

週次	日期	講題	備註
1	9/16	簡介	
2	9/23	Sandra Harding 的後殖民科技觀	
3	9/30	Sandra Harding 的後殖民科技觀	
4	10/7	Warwick Anderson 的後殖民科技觀	
5	10/14	Warwick Anderson 的後殖民科技觀	
6	10/21	科技醫療擴張的(不均等) 地理學	
7	10/28	殖民、後殖民、全球的醫學史書寫	
8	11/4	殖民、後殖民、全球的醫學史書寫	
9	11/11	後-/殖民史當中的邊陲與中心	
10	11/18	原住民/在地知識	
11	11/25	停課一次	全校運動大會
12	12/2	科技、後殖民國家與現代化	
13	12/9	後殖民發展與建設	
14	12/16	後殖民醫療科技	
15	12/23	後-/殖民史裡面的小插曲：瘧蚊	
16	12/30	後殖民、後進國與東亞	
17	1/6	後殖民、後進國與東亞	
18	1/13	回顧與討論	

各周閱讀進度

按：標記*者為參考閱讀

單元一、後殖民科技的幾種看法: Warwick Anderson 與 Sandra Harding

Week 1 簡介

閱讀教材：

1. Basalla, George. (1967). The Spread of Western Science. *Science* 156: 611-622

Week 2 Sandra Harding 的後殖民科技觀(1)

閱讀教材：

1. Harding, Sandra. 1998. *Is Science Multicultural?* Indianapolis, IN: Indiana University Press. 閱讀 Chapter. 1 (pp. 1-22), Chapter 2 (pp.23-38), *Chapter 5 (pp.73-88)
2. Sandra Harding 2004 「多元文化與後殖民世界中的女性主義科技研究」(出自《科技渴望性別》)

Week 3 Sandra Harding 的後殖民科技觀(2)

1. Harding, Sandra. 1998. *Is Science Multicultural?* Indianapolis, IN: Indiana University Press. *Chapter 7 (pp. 105-123), Chapter 8 (pp. 124-145)
2. Harding, Sandra. (2011) Introduction: Beyond Postcolonial Theory—Two Undertheorized Perspectives on Science and Technology. In *The Postcolonial Science and Technology Studies Reader*, edited by Sandra Harding. Durham, NC: Duke University Press, pp.1-32. (主文只有 pp. 1-22)
3. *Harding, Sandra. (2009) Postcolonial and Feminist Philosophies of Science and Technology: Convergences and Dissonances. *Postcolonial Studies* 12(4): 401-421.

Week 4 Warwick Anderson 的後殖民科技觀(1)

閱讀教材：

1. Anderson, Warwick. (2002). Postcolonial Technoscience. *Social Studies of Science* 32:643-658.
2. Anderson, Warwick. (2000) The Possession of Kuru: Medical Science and Biocolonial Exchange. *Comparative Studies in Society and History* 42(4): 713-744.
3. *Anderson, Warwick. (2004). “Postcolonial histories of medicine.” In *Locating Medical History: The Stories and Their Meanings*, edited by Frank Huisman and John Harley Warner. Baltimore: The Johns Hopkins University Press, pp. 285-306.
4. *Said, Edward. (1983) “Traveling Theory.” In *The World, the Text and the Critic*. Cambridge, MA: Harvard University Press. Pp. 226-247.

Week 5 Warwick Anderson 的後殖民科技觀(2)

閱讀教材：

1. Anderson, Warwick. (2009) From Subjugated Knowledge to Subjugated Subjects: Science and Globalization, or Postcolonial Studies of Science? *Postcolonial Studies* 12(4): 389-400.
2. Anderson, Warwick. (2012) Hybridity, Race and Science: The Voyage of the Zaca, 1934-35. *Isis* 103:229-253
3. *Anderson, Warwick and Vincanne Adams. (2008). Pramoedya’s Chickens: Postcolonial Studies of Technoscience. In *The Handbook of Science and Technology Studies*, 3rd edition, edited by Edward J. Hackett, Olga Amsterdamska, Michael Lynch, and Judy Wajcman. Cambridge, MA: MIT press, pp.181-204.

4. *McNeil, Maureen. (2005). Introduction (to special issue): Postcolonial Technoscience. *Science as Culture* 14(2):105-112.

單元二、反思與檢討殖民

Week 6 科技醫療擴張的(不均等) 地理學

閱讀教材:

1. Harding, Sandra. (2012) *Postcolonial Science and Technology Reader*. Durham, NC: Duke University Press, 閱讀 Chap 2, Steven Harris, “Long Distance Corporations, Big Science and the Geography of Knowledge,” pp. 61-83; Chap 6, Lucile Brockway, “Science and Colonial Expansion: The Role of the British Royal Botanical Garden,” pp. 127-139.
2. Seth, Suman. (2009) Putting Knowledge in Its Place: Science, Colonialism, and the Postcolonial. *Postcolonial Studies* 12(4): 373-388.
3. *Prasad, Amit. (2008) Science in Motion: What Postcolonial Science Studies Can Offer. *RECIIS* 2(2): 35-47.

Week 7, 8 殖民、後殖民、全球的醫學史書寫

#本主題因閱讀教材較多，將分兩次進行。

閱讀教材:

1. Arnold, David. (1994). Medicine and Colonialism. In *Companion Encyclopedia of the History of Medicine*, edited by W. F. Bynum and Roy Porter. London: Routledge, pp. 1393-1416 [有中譯本，收錄於科技渴望社會，醫學與殖民主義—David Arnold / 蔣竹山譯 / 劉士永、傅大為校訂 / 劉士永導讀]
2. Marks, Shula. (1997) What Is Colonial about Colonial Medicine? *Social History of Medicine* 10(2): 205-219
3. Ernst, Waltraud. Beyond East and West. From the History of Colonial Medicine to Social History of Medicine(s) in South Asia. *Social Studies of Medicine* 20(3): 505-524.
4. Hodges, Sarah. The Global Menace. *Social History of Medicine* 25(3): 719-728.
5. Anderson, Warwick. Making Glocal Health History: The Postcolonial Worldiness of Biomedicine. *Social History of Medicine* 27(2): 372-384.

Week 9 後-/殖民史當中的邊陲與中心

閱讀教材：

1. De Greiff A., Alexis and Mauricio Nieto Olarte. "What We Still Do Not Know about North-South Technoscientific Exchange", in *The Historiography of Contemporary Science, Technology and Medicine*. Pp. 239-259.
2. Harding, Sandra. (2012) *Postcolonial Science and Technology Reader*. Durham, NC: Duke University Press, 閱讀 Chapter 5, Londa Schiebinger, "Prospecting for Drugs: European Naturalists in the West Indies," pp. 110-126; Chapter 19, Cori Hayden, "Bioprospecting's Representational Dilemma," pp. 343-364.
3. *Stoler, Ann Laura and Frederick Cooper. (1997). "Between Metropolis and Colony." In *Tensions of Empire: Colonial Cultures in a Bourgeois World*, edited by Ann Laura Stoler and Fredrick Cooper. Berkeley: University of California Press, pp. 1-58 [正文只有 pp. 1-37]

單元三、後殖民科技研究的面向

Week 10 原住民/在地知識

1. Turnbull, David. (2000). *Masons, Tricksters and Cartographers: Comparative Studies in the Sociology of Scientific and Indigenous Knowledge*. Taylor and Francis Co. Introduction and Chapter 4, pp.1-19, 133-164.
2. *Verran, Helen. (2002). A Postcolonial Moment in Science Studies: Alternative Firing Regimes of Environmental Scientists and Aboriginal Landowners. *Social Studies of Science* 32: 729-762.
3. *Gandhi, Leela. (1998) *Postcolonial Theory: A Critical Introduction*. New York: Columbia University Press. Chapter 5, pp. 81-102
4. 吳嘉苓 2015 「永久屋前搭涼棚：災後家屋重建的建築設計與社會改造」, STM 20: 9-73

Week 12 科技、後殖民國家與現代化

閱讀教材：

1. Abraham, Itty. (1999). *The Making of the Indian Atomic Bomb: Science, Secrecy, and the Postcolonial State*. Hyderabad, India: Orient Longman. Introduction, pp. 1-33.
2. Abraham, Itty and Ashish Rajadhyaksha. (2015) State Power and Technological Citizenship in India: From the Postcolonial to the Digital Age. *East Asian Science, Technology and Society* 9(1): 65-85
3. *Nandy, Ashis. (1988). *Science, Hegemony and Violence*, edited by A. Nandy. Dehli: Oxford University Press. Introduction: Science as a Reason of State, pp. 1-23.

4. *Gupta, Akhil. (1998). *Postcolonial Developments: Agriculture in the Making of Modern India*. Durham: Duke University Press. Introduction, pp.1-32.

Week 13 後殖民發展與建設

1. Moore, Aaron Stephen (2014). Japanese Development Consultancies and Postcolonial Power in Southeast Asia: The Case of Burma's Balu Chaung Hydropower Project. *East Asian Science, Technology and Society: An International Journal* (2014) 8:297–322
2. Harding, Sandra. (2012) *Postcolonial Science and Technology Reader*. Durham, NC: Duke University Press, 閱讀 Chapter 14, Arturo Escobar, “Development and the Anthropology of Modernity” pp. 269-289.
3. *Gupta, Akhil. (1998). *Postcolonial Developments: Agriculture in the Making of Modern India*. Durham: Duke University Press. Introduction, pp.1-32.
4. *Leys, Colin. (2005). The Rise and Fall of Development Theory. In *The Anthropology of Development and Globalization: From Classical Political Economy to Contemporary Neoliberalism*, edited by Marc Edelman and Angelique Haugerud. Malden, MA: Blackwell, Pp. 107-125
5. *Prakash, Gyan. (2000). *Another Reason: Science and the Imagination of Modern India*. Princeton: Princeton University Press. Chapter 6, “Technologies of Government,” pp. 159-200.
6. *McEwan, Cheryl. (2009). *Postcolonialism and Development*. London: Routledge. Chapter 3 “Postcolonial Theory and Development”, pp. 77-119.

Week 14 後殖民醫療科技

閱讀教材:

1. Whitmarsh, Ian. (2009) Hyperdiagnostics: Postcolonial Utopics of Race-Based Biomedicine. *Medical Anthropology* 28(3): 285-315.
2. Prasad, Amit. (2005) Scientific Culture in the 'Other' Theatre of 'Modern Science': An Analysis of the Culture of Magnetic Resonance Imaging Research in India. *Social Studies of Science* 35(3): 463-489.
3. Karchmer, Eric I. (2010) Chinese Medicine in Action: On the Postcoloniality of Medical Practice in China. *Medical Anthropology* 29(3): 226-252.
4. *Prasad, Amit. (2006) Beyond Modern versus Alternative Science Debate: Analysis of Magnetic Resonance Imaging Research. *The Economic and Political Weekly*. 41(3): 219-227.
5. *Adams, Vincanne (2002) Randomized Controlled Crime: Postcolonial Sciences in Alternative Medicine Research. *Social Studies of Science*. 32(5-6): 659-690,

單元四 後殖民與東(南)亞科技研究

Week 15 後-/殖民史裡面的小插曲：瘧蚊

閱讀教材：

1. Anderson, Warwick. (2006). *Colonial Pathologies: American Tropical Medicine, Race and Hygiene in the Philippines*. Durham: Duke University Press. Chapter 8, “Malaria between Race and Ecology” pp. 207-226.
2. *Mitchell, Timothy. (2002). *Rule of Experts: Egypt, Techno-politics, Modernity*. Berkeley, CA: University of California Press. Chapter 1 “Can the Mosquito Speak?”, pp. 19-53.
3. *Turnbull, David. (2000). *Masons, Tricksters and Cartographers: Comparative Studies in the Sociology of Scientific and Indigenous Knowledge*. Taylor and Francis Co. Chapter 5 “Making Malaria Curable: Making a Knowledge Space for a Vaccine”, pp.165-186
4. 林宜平(2011)對蚊子宣戰：二次戰後台灣根除瘧疾的科技與社會研究。《台灣社會研究季刊》81: 187-235.

Weeks 16, 17 後殖民、後進國與東亞

後殖民與東亞：

1. 張國暉，技術的社會建構論（SCOT）之挑戰：建構東亞技術研究主體性的一個契機。2011; STM 13: 171-222
2. 傅大為，SCOT 的新發展與何謂「區域研究」—針對第十三期張國暉文獻評述的兩點意見與澄清。2012; STM 15: 285-290
3. Anderson, Warwick (2012) Asia as Method in Science and Technology Studies. *East Asian Science, Technology and Society* 6(4): 445-451.

後進國與後殖民

1. Lin, Wen-yuan and John Law (2015) We Have Never Been Latecomers! Making Knowledge Spaces for East Asian Technosocial Practices. *East Asian Science, Technology and Society* 9(2): 117-126
2. Chen, Tzung-Wen. (2015) Global Technology and Local Society: Developing a Taiwanese and Korean Bioeconomy through the Vaccine Industry. *East Asian Science, Technology and Society* 9(2): 167-186
3. Lin, Tzung-De. (2015) Theater as a Site for Technology Demonstration and

Knowledge Production: Theatrical Robots in Japan and Taiwan. *East Asian Science, Technology and Society* 9(2): 187-21

Week 18 回顧與討論