University of Toronto Scarborough Department of Physical and Environmental Sciences

EES C24 ± 3 L F W X U L Q J μ 7 U X W K ¶ (Q Y L U/R Q P H Q W D O Environmental Science 2012 Fall Outline

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Office hours: Wednesday 3pm to 5pm Email: michaelallder@gmail.com Lecture time: Wednesday 7pm ±9pm

Location:IC130

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COURSEDBJECTIVE

The objective of this course is to provide students of environmental sciences and media with a behind-the-scenes view of the challenges and choices involved in the production of environmental films, and to explore the dynamic between environmental filmmaking and environmental science.

Television and film documentaries offer an intriguing and affecting view of the $\ddagger \bullet \tilde{\ } ("`\bullet \bullet \ddagger \bullet - f \bullet \dagger - \check{S} \ddagger \bullet f - - "f \check{Z} \ ^{\text{TM}} `"\check{Z} \dagger \acute{a} \ f \bullet \dagger - \check{S} \ddagger \rangle f "\ddagger ``- \ddagger \bullet - \check{S} \ddagger \ \% \ddagger \bullet$ source for this information. Filmmakers seek to document endangedespecies, threatened environments, explore remote and exotic landscapes, and access the impact of new technology and development on the natural world. But what are the influences at play in the making of such a documentary? How are complex situations dilet into hour long, narrative and scenedriven TV? In the quest to both tell the truth and tell a good story, what is lost and what is gained?

In this ten- 'f" — $\check{Z} \ddagger ... -$ —" \ddagger • \ddagger " Ttutlá i Œnvironmen'tal• ‰ Filmmaking/Environmental Scienceó á $\ddagger f$ sioð wiltfocus on a particular theme and deconstruct a specificocumentary film (or films) to illustrate and explore that theme.

involved in the making of each film, who will be on hand to discuss and defend their choices.

COURSE EVALUATION:

In addition to weekly preparation and class participation, students will be asked to complete two major written assignments, one at mid- \ddagger " • f • \dagger • \dagger

End-term Assignment: Students will be asked to produce a thoughtful and credible proposal for their own environmental film on a subject of their choosing. They will be asked to write up a formal treatment (1015 pages) for an environmenta film that they might theoretically propose to a broadcaster, including subject matter, theme, thesis, scientific groundwork for the story, methods of 7.23 Tm fcill bjN£¬pà lñ#Ä^°†!¬5î0 "SB'œç"änA5‰J:Çì

no depiction of a rapidly declining habitat. The suggestion is that the broadcasters/filmmakers can be so focused to the telling animal moment that they choose to discard or neglect reporting that the immediate environment is so compromised that the animals long term survival prospects are seriously threatened. There are concerns too, that as a genre, wildlife filmmials can be lacking in content, that films can morph into one long lavishly photographed spectacle. Eye candy for the armchair traveler. A kind of animal porn, where scenes of violence in particular are exploited for dramatic value.

That said, the genre re

increasingly constrained wildlife population.

The session will focus both on thenvironmental issues facing conservationist and on the practicalities offilmmaking in these regions. How do you recocile the needs of communities with those of threatened species? In the Congo film, there are obvious personal safetyand health issues, and some very prickly situations regarding access. There are also storytelling challenges. How do you strike a balance between the need to convey information and the sheer drama ofmany of the scenes. Similarly, in the second film, how do you convey the big picture, give a sense of shifts in policy over an extended period of time?

Preparation for Class: Possible reading on classic conservationist, Richard Leaky as well as general research on conservation dilemmas in Africa.

5. October 10 - Disappearing World II - environment, culture and knowledge.

All across the planet loss of habitat and overdevelopment of thenatural environment are eradicating ancient cultures, languages and customs. This loss is particularly acute amongst nomadic peoples, the last of the hunteratherers. Survival has been dependent on exceptional knowledge of the natural world, which provided food, tools, weapons, shelter, and medicine. Much of that knowledge will likely vanish along with the culture unless recorded. Disappearing World (Part I) explores how anthropology films draw attention both to the human cost of large scale development, but also to the loss of knowledge accumulated through thousands of years of day to day awareness of the interonnectedness of the natural world, and of the individual properties of trees, plants, insects, animals. Development may bring a better standard of living for many, but it comes at a price.

Films of this kind have particular challenges. Firstly, as so often in documentary, are there are issues both of access and trust, but in the case of anthropology films these changes are often compound by the isolation of the community, or its reluctance to inter-act with the outside world. The logistics of filming in a tropical rain forest or in a desert war zone are also formidable. There are tech issues, health concerns, and increasingly, security threats.

Anthropology films also demand a high degree of scholarship of an especially-un usual nature. Academic research is often continuing over an extended period of time. Filmmakers have to be aware of a broad range of specialisms, some societal, others relating to ritual, religion, medicine, botany, food, the mechanics of survival in sometimes seemingly inhospitable places and terrain. How do you distill so much information, make choices regarding the relative weight or importance of such information? How do you visualize this wealth of knowledge? How do you transform such a mass of information, and in many cases, emotion, into a narrative, a single unfolding story? Finally, we assess the value of documentary films as a record of a disappearing world.

In this session, we focus on the documentar The Last Nomads, from the miniseries The Adventurers á '"' \dagger —… \ddagger † The Nature of Things, which documents the dying days of a nomadic huntegratherer culture in the rain forest of Sarawak, Borneo. Directo Andrew Gregg joins us to explore an extreme example of how loss of habitat (70% of Sarawak forest is licensed for logging) can decimate a ' \ddagger '' \check{Z} \ddagger \bullet \ddot{I} TM '" \check{Z} \dagger \ddot{a}

Gregg travelled to Sarawak along with linguist and anthropologist Ian McEnzie who has been studyingand documenting Penan language and culture since 1991. As the expedition heads deeper into what remains of the 130 million year old forest it becomes increasingly evident to McEnzie and Gregg that they are documenting the end of a culture.

Preparation for class. Research "ä $f \cdot \dots \ddagger \cdot ce \land \ddagger \ddot{i} \cdot \dots f - \land \land e \cdot te = \uparrow \ddot{i} \cdot \dots f - \land f \cdot e \cdot te = \uparrow \ddot{i} \cdot \dots f - \land f \cdot e \cdot te = \uparrow \ddot{i} \cdot \dots f - \ddot{i} \cdot \dots f -$

6. October 17 - Disappearing World III, The Real Avatar

The scale of proposed development(s with the Canadian oil sands) is immese. In Peru a massive area discrete land, the homeof various tribal communities, has been licensed for exploration .Some seventytwo percent of Peruvian jungle is zoned for oil development alone. Inevitably, as in the Cameron movie, there was angry opposition leading, in one event, to the deaths of wenty three Peruvian police and (the number is contested) ten protestors. Elsewhere communities are divided, some welcoming development as the source of new jobs, others rigidly opposed to change of any kind. The simplicities of Avatar, the movie, however well meaning, † • i – reflect the reality. In this case, arbears scant semblance to life!

In this sessionwe analyze two films that document the choices facing indigenous communities when their home and way of life are threatenedOne will focus on the conflict over land use in Peru, the other will explore isses here in Canada. Filmmakers Roberto Verdecchia, the director of the Real Avator and tha (Geoff Bowie or Mike Fuller) discuss the choices they faced during production, the difficulties of access, concerns aboutersonal security. How well was environmental science ierg

play. Hunt Oil, for instance, the American based licensee of much of the Peruvian territory simply choosing not to participate!

Preparation for Class: General reading on development issues as they impact indigenous peoples.

7. October 24 - Oil Sands.

The scale of **e**velopment is colossal, the papff massive. Government estimates suggest that by 2020 production will reach 3.3 million barrels a day. Currently some six hundred square kilometers are impacted, anothethousand kilometers licensed. But although big business is e tc89197.4 ss

8. October 31 - Climate Change

The scale of the productions was extraordinary. Two major series, one in the Arctic, and the other in the Antarctic, each documenting first and the growing impact of climate change on the region. In the first voyage, the expedition in three masted schooner, the Sedna (which the filmmakers had purchased and e-equipped!)

The seriesGeologic Journey set out to educate its audience on where to look, and how to interpret what we see. It was filled with surprising facts, telling viewers to their astonishment that Toronto was once the site of a mountain range the size of the Himalayas, that the neighboring city of Detroit sits on a bed of salt, the remnants

GENERAL INFORMATION ON SSIGNMENTS

Evaluation of assignments takes into account organization and structure, style and presentation, as well as research and content. Writing quality and content are both considered in grading. Your work will be graded by a teaching assistant (TAI) you have a question or problem with the grade you receive, consult the TA. Your grade may be revisedup or down based on the review.

Your assignments must have a plain title page with the title of your assignment, your name, course number, the date,our student number, and the instructor's name. Staple your assignment in the upper left corner; do not use folders, cover slips, or binders.