

iGem Human Practices Podcast Planning Sheet

Title	Making Waves
Cover art	Rudra (he will upload the files on google drive)
Description	
Theme Music	Husnain, Ayushi (check google drive for possible theme music to choose)
Mics x 2	Husnain
Script for episodes (Qs to ask)	Assigned during meeting
Introduction script	Shea
Audio editing capabilities	

Stakeholders to invite	Potential people to contact
Students	Survey we will for current public knowledge
Politicians	Any of the City Councillors for Wards intersecting Thames river (usually)
City waste treatment officials	Gary Burrows- Supervisor of London Plants (Point of Contact, Shea)
Professors/researchers	Mark Sumarah- Agriculture Canada researcher on Thames(has done testing) + Professor (point of contact, Shea + Luana) - Patricia Corcoran - Earth Science Prof who does research in microplastics contaminants in fresh water (has a whole project on Thames river), -Dr. Karas for information on synbio,
Company representatives	FFP systems inc, Prominent
Environmental expert	Leo Luong- - Ontario Water Management Committee, Environment Canada

Things to remember
Promise something interesting in the end.
Intro music
Introduce today's topic and what will the listener know by the end
try to get experts because that is what listeners care about

	Attractive name
Trailer?	
Episode 1	1. What is synthetic biology? 2. Synthetic Biology For All
Episode 2	1. What is iGem and our project? 2. iGEM Who?

Episode 3	1. City officials
Episode 4	1. Wastewater Regulations 2. The impending Regulation Apocalypse
Episode 5	1. Feasibility of Changing Treatment Plants 2. Let's Put a Dollar Sign on Safety
Episode 6	1. Ethical Policies and Public Water Management 2. Public Education: Is no knowledge good knowledge?
Episode 7	Ecological affects
Episode 8	Health affects
Episode 9	Water Treatment 101
Episode 10 (can be less or more episodes)	Public interviews

Episode 1
SynBio Intro

Questions
What is synthetic biology
How can high school /uni students get involved
How is the job market
What is the potential?

Episodes 3

what is in the water?

how do they treat it?
what is left after treatment?

Episode 4

What is currently regulated in London/Canadian systems?

What types of EC's are on the rise in our waters?
How can the average citizen help/ advocate?

Episode 5

Is it feasible to implement new water treatment machinery? (timeline)
How much would it cost the city to start regulating new EC's?

Episode 6

What are the ethical implications of regulating (or not) public water?
Should the public be more informed?

Current info on waste management

What are current wastewater treatment regulations?
Who is responsible for creating these regulations?
How are thresholds decided?
What is the process for creating new regulations

Category

Environmental impact (includes health impact)
Current public knowledge
Current on waste management
Wet and dry lab team

Description

How does it affect our body, ecosystem, organisms in the water, environment?
Interview random students, ask them what is in the water, tell them what you know
Sit down with a professor, city officials and waste management learn about their work
What would our scientist recommend?

Questions

Environmental impact (includes health impact)

Ayushi

Current public knowledge

Tiffany

Can you briefly describe what these compounds are and what they are typically used for?

Do you know how water gets into our tap?

Why are these compounds ending up in the water?

What types of chemicals get into our water?

How are these chemicals impacting the organisms which live in the water?
What is their larger impact on the environment/ecosystem?

Do you think the current public is aware of the issue?

If no: Why do you think they are not aware of this?

What effect do these compounds have on humans?

if yes: How can we improve our knowledge and what is the best way of doing so?

What threshold/concentration of these compounds in the water is safe?

What are your thoughts of using microbes/organisms to filter out water?

What advice do you have of people for are concerned about the environmental impact of emerging contaminants?

*we could possibly do a trivia kind of thing to ask the public (aka peopl

How can the average person reduce the amount of wastewater they produce and the toxic chemicals that they add to it?

What is synthetic biology?

In your opinion, what is the best way to address this issue?

Silly water. Why your clean water is not clean. And you thought your water was clean. no clean water in sight. invisible contaminants, a catastrophe

e from)

y easy to contact, then move up from there), Green party Canada reps, possibly other national parties considering there is an election coming up

Canada.

Expert to Interview	Host	Guest
Prof's to be determined (maybe Karas + Hill together) https://www.synbiocanada.org/steering-committee		
(Luana,		

City official (Garry)		
Contact national political party officials for interview Jeff Yurek, Minister of the Environment, Conservation and Parks; Andrea Khanjin, Parliamentary Assistant to the Minister of the Environment, Conservation and Parks		
Manufacturing Companies		
Philosophy Profs		
Thames River Conservation Authority		
Mac chair in enviro and health (Karen Kidd); or a physician?		
Wastewater Plant Staff		

Ayushi
Tiffany
Rudra

Current on waste management

Rudra

Describe briefly the waste management strategies at your organization.

What are some of the biggest challenges with regards to water treatment and waste management?

How quickly is innovation driving treatment quality and efficiency?

Describe briefly the path from research to implementation of a new treatment technique.

We often don't think about where the clean water in our homes comes from, how important is it for people to know about their impact on water sources?

What are some things you wish people knew/did/were mindful of?

Policy Making/ Ethics

Shea

Based on what is currently being regulated, in what direction do you see the wastewater taking in the next 5-10 years?

Do you think the reality that the general public is largely uneducated about what is in our "clean" water is unjust?

In the grand scheme of things in the policy world, what is the process if we want to make a difference in the regulatinos of wastewater?

What do you think of [our iGEM project]?

How important do you think [our iGEM project] is as a starting point for further innovation?

What changes do you anticipate in the next 10-20 years?

Title Ideas:

Notes
What will be talking about in the series?
Best to have a professor?
Luana along with other team leads?

