

**MS4SSA Training
Ghana
27 August – 31 August 2018
Schedule**

(WPI team arrives Saturday, 25 August)

Day 1: Monday, 27 August 2018

Day's activities require one room large enough for all participants arranged with round tables for seating;

Audio visual requirements: projector; laptop; microphone

Time	Activities
8:00-8:30	Registration
8:30-8:45	Opening Ceremony – Opening and welcome remarks
8:45 – 9:30	Presentation on MS4SSA – What is MS4SSA, history (including activities in Gambia, Rwanda, Nigeria, etc.) Wole Soboyejo, WPI
9:30 -10:00	MS4SSA commitments and expectations from Ghana Roles and responsibilities for all partners Bernard
10:00-10:30	MS4SSA Website and Canvas Overview Kim Hollan, WPI
10:30-11:00	TEA BREAK
11:00-12:00	Introduction to MS4SSA Pedagogy Rosanna Satterfield
12:00-13:30	LUNCH
13:30-14:30	Introduction to Materials Science and Materials Design Wole Soboyejo
14:30 – 15:30	Case Studies in Project Based Learning Wole Soboyejo
15:30-16:00	TEA BREAK
16:00-17:00	Reflection on Implementation of MS4SSA in Schools

Day 2: Tuesday, 28 August 2018

Day's activities require one room large enough for all participants arranged with round tables for seating;

Audio visual requirements: projector; laptop; microphone

Time	Activities
8:00 - 10:00	Introduction to Project Based Learning: Assessments Kim Hollan
10:00-10:30	TEA BREAK
10:30-12:30	MS4SSA Modules and Tools (Smart notebooks/projectors, Plickers, Kahn Academy, NJCTL Modules, etc) Rosanna Satterfield
12:30-13:30	LUNCH
13:30 - 15:30	Introduction to Robotics (African Context and Competitions) and 3D Printing Modules Wole Soboyejo, Kim Hollan, Abisola Kusimo, and Rosanna Satterfield
15:30-16:00	TEA BREAK
16:00-17:00	Reflection on Implementation of MS4SSA in Schools

Day 3: Wednesday, 29 August 2018

Day's activities require one room large enough for all participants arranged with round tables for seating;

Audio visual requirements: projector; laptop; microphone

We will be using video conferencing with ZOOM

Time	Activity
9:00 - 10:30	Introduction to Math and Science Modules Rosanna Satterfield
10:30-11:00	TEA BREAK
11:00-12:30	(cont) Introduction to Math and Science Modules Rosanna Satterfield
12:30-14:00	LUNCH
14:00-15:30	Assembly of Robots (ZOOM VC with Nick Bertozzi)
15:30-16:00	TEA BREAK
16:00-17:30	Programming of Robots (ZOOM VC with Brad Miller)
17:30 - 18:00	Reflection on Implementation of MS4SSA in schools

- Robotics lab requires 16 Windows laptops; and power strips for charging them
- 16 Robots (WPI will bring)
- 4 x 3D printers (WPI will bring)

Day 4: Thursday, 30 August 2018

Day's activities require one room large enough for all participants arranged with round tables for seating;

Audio visual requirements: projector; laptop; microphone

Time	Activity
9:00 - 10:30	Introduction to Math and Science Modules II Rosanna Satterfield
10:30-11:00	TEA BREAK
11:30-12:30	Electricity and Introduction to Solar Lanterns and Solar Lantern Assembly Wole Soboyejo and Abisola Kusimo
12:30-14:00	LUNCH
14:00-15:30	Introduction to Ceramic Water Filtration and Microbial Characterization Wole Soboyejo and Abisola Kusimo
15:30-16:00	TEA BREAK
16:00-17:30	Discussion on Project-Based Learning and MS4SSA Activities
17:30 - 18:00	Award of Certificates

- Solar Lanterns requires: 40 Kerosene Lanterns, 6V LED bulbs, 6V Motorcycle batteries, and wires
- Electricity kit could use UNESCO kits from Zebaze
- Ceramic Water Filter Lab requires 40 water filters (order 50 to allow for breakage) and plastic 1L measuring cylinders

Day 5: Friday, 31 August 2018

(WPI team departs Friday, 31 August)

Time	Activity
9:00 - 10:30	Implementing MS4SSA Programs in Schools and Assessments using MS4SSA Platforms Bernard Ayensu and MS4SSA team
13:00-11:00	TEA BREAK
11:00-12:30	Supervised Teaching of Math and Science I
12:30-14:00	LUNCH
14:00-15:30	Supervised Teaching of Math and Science II
15:30-16:00	TEA BREAK
16:00-17:30	Supervised Extracurricular Activities – Project Based Learning
17:30 - 18:00	Open Discussion and Closing Remarks