MS4SSA Training
Nigeria Node
19 August – 25 August 2018
Schedule

(WPI team arrives Saturday, 18 August)

Day 1: Monday, 20 August 2018
Day's activities require one room large enough for all participants arranged with round tables; Audio visual requirements: projector; laptop; microphone; Video Conferecing

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, etc.) Wole Soboyejo
9:30 -10:00	MS4SSA commitments and expectations from Nigeria (Node Speaker) Shola Odusanya
10:00-10:30	Roles and responsibilities for all partners Nigeria Node (Node Speaker) Shola Odusanya and James Ajobeje
10:30-11:00	**TEA BREAK**
11:00-12:00	Introduction to MS4SSA Modules and Website Wole Soboyejo
12:00-13:30	**LUNCH**
13:30-14:30	Introduction to Materials Science and Materials Design Wole Soboyejo Introduction from ASM Foundation Carrie Wilson Executive Director
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, 21 August 2018
Day's activities require one room large enough for all participants with round tables; 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	Introduction to Robotics (African Context and Competitions) Wole Soboyejo
12:30-13:30	**LUNCH**
13:30 – 15:30	Robotics and 3D Printing Modules Zebaze Kana, Kim Hollan
15:30-16:00	**TEA BREAK**
16:00-17:00	Reflection on Implementation of MS4SSA in Schools

Day 3: Wednesday, 21 August 2018

Day's activities require one room large enough for all participants arranged with round tables; Audio visual requirements: projector; laptop; microphone; Video Conferencing

Time	Activity
9:00 - 10:30	Introduction to Robotics and 3D Printing and 3D Printing Lab Zebaze Kana, Kim Hollan,
10:30-11:00	**TEA BREAK**
11:00-12:30	Assembly of Robots (ZOOM with Nick Bertozzi)
12:30-14:00	**LUNCH**
14:00-15:30	Programming of Robots (ZOOM with Brad Miller)
15:30-16:00	**TEA BREAK**
16:00-17:30	Robotic Competitions and Extracurricular Activities Kim Hollan, Abisola Kusimo
17:30 – 18:00	Reflection on Implementation of MS4SSA in schools

- Robotics lab requires 20 windows laptops; and power strips for charging them
- 16 Robots (WPI will bring)
- 4 x 3D printers (WPI will bring)

Day 4: Thursday, 23 August 2018
Day's activities require one room large enough for all participants arranged with round tables; Audio visual requirements: projector; laptop; microphone

Time	Activity
9:00 - 10:30	Introduction to Solar Lanterns and Solar Lantern Assembly Zebaze Kana and Kehinde Oyewole
10:30-11:00	**TEA BREAK**
11:30-12:30	Review of Electricity and Charging Solar Lanterns Zebaze Kana and Kehinde Oyewole
12:30-14:00	**LUNCH**
14:00-15:30	Introduction to Ceramic Water Filtration and Microbial Characterization Vanessa Uzonwanne
15:30-16:00	**TEA BREAK**
16:00-17:30	Discussion on Project-Based Learning and Group Activities

- Solar Lanterns requires: 40 Solar Lanterns, LED bulbs, 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)

Day 5: Friday, 24 August 2018

Time	Activity
9:00 - 10:30	Implementing MS4SSA Programs in Schools and Assessments using MS4SSA Platforms
13:00-11:00	**TEA BREAK**
11:00-12:30	Project-Based Ceramic Water Purification Modules
12:30-14:00	**LUNCH**
14:00-15:30	Solar Lantern Modules
15:30-16:00	**TEA BREAK**
16:00-17:30	Robotics Modules and Competitions
17:30 – 18:00	Open Discussion and Closing Remarks

- Implementation requires 160 pen drives and file with assessment forms (WPI)
- Ceramic Water Filter Lab requires 3M paper and 40 Ceramic water Filters
- Solar Module requires 40 lanterns with 6V LED bulbs, 6V motorcycle batteries, wire, and wire cutters