

**MS4SSA Training
Niger
18 October – 22 October 2018
Schedule**

(WPI team arrives Wednesday, 17 October)

Day 1: Thursday October 18, 2018

Day's activities require one room large enough for all participants arranged with round tables for seating; 2 smaller rooms for the 11-12 session would be useful
Audio visual requirements: projector; laptop; microphone

Time	Activities
8:00-8:30	Registration and Assessment Survey
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 Niger Roles and responsibilities for all partners NODE Representative
10:00-10:30	MS4SSA Website and Canvas Overview Kim Hollan, WPI
10:30-11:00	TEA BREAK
11:00-12:00	Hands-On Robots and 3D Printing
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	Open Discussion

Day 2: Friday October 19, 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	Electricity and Introduction to Solar Lanterns and Solar Lantern Assembly Wole Soboyejo and Kehinde Oyewole
12:30-13:30	LUNCH
13:30 - 15:30	Introduction to Ceramic Water Filtration and Microbial Characterization Wole Soboyejo and Kehinde Oyewole
15:30-16:00	TEA BREAK
16:00-17:00	Reflection on Implementation of MS4SSA in Schools

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

Day 3: Saturday October 20, 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
8:00 – 10:00	Introduction to Robotics (African Context and Competitions) Wole Soboyejo
10:00-10:30	TEA BREAK
10:30-12:30	Assembly of Robots, video Kim Hollan
12:30-13:30	LUNCH
13:30-15:30	Programming of Robots Kim Hollan
15:30-16:00	TEA BREAK
16:00-17:30	Social Constructivism, Project Based Learning and Plickers Wole Soboyejo and Kim Hollan
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)

Day 4: Sunday October 21, 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	3D Printing Adebayo Badmos
10:30-11:00	TEA BREAK
11:30-12:30	Alignment of Modules to Curriculum
12:30-14:00	LUNCH
14:00-15:30	Implementation of Project Based Learning in Niger
15:30-16:00	TEA BREAK
16:00-17:30	Assessments and Certificates

- 3D printers (WPI will bring)