

Pan African Materials Institute

| Start | End | |
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| Monday, July 10, 2017 | | |
| 8:00 | 9:30 | Registration (Reception, ADB Lab) |
| 9:30 | 10:30 | <p>Mathematics & Science for Sub-Saharan Africa – Nigeria Node (MS4SSA)</p> <p>Introduction of guests and welcome – Dr. Shola Odusanya (MS4SSA – Nigeria Node Coordinator) Welcome Address by AUST President – Prof. Charles Chidume (VP Academic – AUST)</p> <p>Session Chair – Prof. Oye Ibidapo-Obe <i>Fas</i> (Board Member AUST) Lead paper presentation – Prof. W. O. Soboyejo (Dean of Engineering, Worcester Polytechnic Institute) Discussant – Paula Quinn (Worcester Polytechnic Institute)</p> <p style="text-align: right;">(ADB Conference Hall)</p> |
| 10:30 | 11:00 | Tea Break/Group Photographs (Café Lounge, ADB Lab) |
| 11:00 | 12:30 | <p>Mathematics & Science for Sub-Saharan Africa – Nigeria Node (MS4SSA)</p> <p>Prof. O.O. Adewoye Memorial lecture: - Prof. Oye Ibidapo-Obe</p> <p>Panel: Session Chair – Aisha Garba-Mohammed – co-TTL Africa Centers of Excellence Project, World Bank Discussants: Prof. Siyan Malomo; Prof. Tunner Isoun; Prof. Peter Onwualu; Prof. Charles Chidume; Prof. Babaniyi Babatope</p> <p style="text-align: right;">(ADB Conference Hall)</p> |
| 12:30 | 13:00 | Discussion/Q & A |
| 13:00 | 14:30 | Lunch (PTDF Hall/Zenith Hall/Tech Cafe, Mandela Hall) |
| 14:30 | 15:30 | <p>Mathematics & Science for Sub-Saharan Africa – Nigeria Node Launching</p> <p>The reality of Mathematics and Science Education in SSA.</p> <p>Panel: Session Chair: Hadjiya Samira – National Association of Proprietors of Private Schools. Panelists: Felicia Boakye-Yiadom – Ag Executive Secretary, National Council for Curriculum and Assessment, Ghana Adama Jobe –Director Science and Technology, Ministry of Basic and Secondary Education -Gambia Mrs. Rosemary Umanah – Director Federal Capital Territory Department of Science and Technology Prof. Mojisola Oyarekua – Provost College of Education Ikere-Ekiti Mr. Kofi Akpan – States Education Investment Project SPIP (Federal Ministry of Education) Prof. Josiah Ajiboye – Executive Secretary. Teachers Registration Council of Nigeria</p> |
| 15:30 | 16:00 | Tea Break (Café Lounge, ADB Lab) |

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| 16:00 | 17:00 | <p>Mathematics & Science for Sub-Saharan Africa – Nigeria Node (MS4SSA)</p> <p>PSI-PMI – The USA Experience (Bob Goodman, New Jersey Center for Teaching and Learning, NJ., USA)</p> <p>Panel: <i>Session Chair: – Prof. Sunday A. Thomas – Director General/CEO SHESTCO.</i> <i>Discussants:</i> Adama Jobe, Director Science and Technology, Ministry of Basic and Secondary Education –Gambia Mrs. Rosemary Umanah – Director, FCT Department of Science and Technology, Abuja, Nigeria Hadjiya Samira – National Association of Proprietors of Private Schools/Federal Ministry of Education Prof. Josiah Ajiboye – Executive Secretary, Teachers Registration Council of Nigeria</p> <p>(ADB Conference Hall)</p> |
| 19:00 | - | <p>Opening Dinner</p> <p>(TBD)</p> |
| Start | End | |
| Tuesday, July 11, 2017 | | |
| 7:00 | 9:30 | <p>Registration (Reception, ADB Lab)</p> |
| 9:30 | 9:45 | <p>Mathematics & Science for Sub-Saharan Africa – Nigeria Node (MS4SSA)</p> <p>The Preview of the Day's agenda <i>Speaker: Dr. James Ajogbeje – Director, Curriculum Development, Ekiti State College of Education</i></p> |
| 9:45 | 11:15 | <p>Mathematics & Science for Sub-Saharan Africa – Nigeria Node (MS4SSA)</p> <p>MS4SSA's Approach to Curriculum Design</p> <p><i>Chair: Prof. Ryoko Tomita – World Bank (The Gambia)</i> <i>Speakers: Robert Goodman, Executive Director, NJCTL/Prof. W. O. Soboyejo – Dean of Engineering WPI</i> <i>Discussants:</i> Paula Quinn (Worcester Polytechnic Institute) Lucient Kokou – Inspector of Mathematics, Ministry of Secondary Education and Vocational Training, Benin Adama Jobe, Director Science and Technology, Ministry of Basic and Secondary Education –Gambia Felicia Boakye-Yiadom – Ag Executive Secretary, National Council for Curriculum and Assessment, Ghana Josiah Ajiboye – Executive Secretary, Teacher Registration Council of Nigeria (TRCN)</p> <p>(ADB Conference Hall)</p> |
| 11:15 | 11:45 | <p>Olusegun Adewoye Memorial Lecture – Professor, Winston Oluwole Soboyejo</p> <p>Award of Posthumous Lifetime Achievement Award: Prof. Oye Ibidapo-Obe</p> <p>Recipient on behalf of Family of Prof, O.O. Adewoye: Mr. Kehinde Adewoye.</p> <p>(ADB Conference Hall)</p> |
| 11:45 | 12:15 | <p>Tea Break (Café Lounge, ADB Lab)</p> |
| 12:15 | 1:00 | <p>Mathematics & Science for Sub-Saharan Africa – Nigeria Node (MS4SSA)</p> <p>Approaches to Assessments</p> <p><i>Session Chair: Robert Goodman - NJCTL</i> <i>Speaker: Paula Quinn Worcester Polytechnic Institute(WPI)</i> <i>Discussants:</i></p> |

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| | | <p>Prof. Mojisola Oyarekua – Provost College of Education Ikere-Ekiti Felicia Boakye-Yiadom – Ag Executive Secretary, National Council for Curriculum and Assessment, Ghana Adama Jobe – Director Science and Technology, Ministry of Basic and Secondary Education -Gambia Mrs. Rosemary Umanah – Director Federal Capital Territory Department of Science and Technology</p> <p style="text-align: center;">(ADB Conference Hall)</p> |
| 13:00 | 14:30 | <p>Lunch (PTDF Hall/Zenith Hall/Tech Cafe, Mandela Hall)</p> |
| 14:30 | 16:00 | <p>Mathematics & Science for Sub-Saharan Africa – Nigeria Node (MS4SSA)</p> <p>MS4SSA Approaches to Science, Engineering and Robotics Education</p> <p>Session Chair: Prof. Peter Onwuaju – Coordinator, Materials Science and Engineering, AUST Discussants: Kenechukwu Mbanisi – Worcester Polytechnic Institute Prof. Zebaze-Kana – KWASU Kim Hollan – Worcester Polytechnic Institute</p> <p style="text-align: center;">(ADB Conference Hall)</p> |
| 16:00 | 16:30 | <p>Tea Break (Café Lounge, ADB Lab)</p> |
| 16:30 | 17:30 | <p>Mathematics & Science for Sub-Saharan Africa – Nigeria Node (MS4SSA)</p> <p>Social Constructivist Classroom Environment: MS4SSA strategy.</p> <p>Session Chair: Aisha Garba-Mohammed (co-TTL ACE project, World Bank Country Office, Nigeria) Speaker: Robert Goodman – NJCTL Discussants: Hadjiya Samira – National Association of Proprietors of Private Schools. Prof. Josiah Ajiboye – Executive Secretary, Teacher Registration Council of Nigeria (TRCN) Adama Jobe – Director Science and Technology, Ministry of Basic and Secondary Education –Gambia</p> <p style="text-align: center;">(ADB Conference Hall)</p> |
| 17:30 | 18:00 | <p style="text-align: center;">Conference Closure: From Ideas to Action</p> <p>Session Chair: Prof. Winston Oluwole Sobeyejo: Speakers: Aisha Garba Mohammed/Ryoko Tomita -World Bank</p> <p style="text-align: center;">(Transportation pick up at Mandela Hall Car Park to various hotels)</p> |

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| Wednesday, July 12, 2017 | | |
| 9:00 | 9:30 | <p>Mathematics & Science for Sub-Saharan Africa – Nigeria Node (MS4SSA)</p> <p>Introduction to the NJCTL Model (MS4SSA Pedagogy) – Robert Goodman, Executive Director, NJCTL</p> <p style="text-align: center;">(ADB Conference Hall)</p> |
| 9:30 | 10:00 | Discussion/Q & A |
| 10:00 | 10:30 | <p>Tea Break (Café Lounge, ADB Lab)</p> |

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| 10:30 | 12:00 | <p>Mathematics & Science for Sub-Saharan Africa – Nigeria Node (MS4SSA)</p> <p>NJCTL Breakout Sessions</p> <p>Themes: Mathematics Algebra-Based Physics</p> <p style="text-align: right;">(ADB Conference Hall)</p> | | | | | | | | | | | | | | | | | | | | | |
| 12:00 | 12:30 | <p>Discussion/Q & A</p> | | | | | | | | | | | | | | | | | | | | | |
| 12:30 | 14:00 | <p style="text-align: center;">Lunch</p> <p style="text-align: center;">(PTDF Hall/Zenith Hall/Tech Cafe, Mandela Hall)</p> | | | | | | | | | | | | | | | | | | | | | |
| 14:00 | 15:00 | <p>Mathematics & Science for Sub-Saharan Africa – Nigeria Node (MS4SSA)</p> <p>NJCTL Breakout Sessions</p> <p>Themes: Mathematics Algebra-Based Physics</p> <p style="text-align: right;">(ADB Conference Hall)</p> | | | | | | | | | | | | | | | | | | | | | |
| 15:00 | 15:30 | <p>Discussion/Q & A</p> | | | | | | | | | | | | | | | | | | | | | |
| 15:30 | 16:00 | <p style="text-align: center;">Tea Break</p> <p style="text-align: center;">(Café Lounge, ADB Lab)</p> | | | | | | | | | | | | | | | | | | | | | |
| 16:00 | 16:45 | <p>Mathematics & Science for Sub-Saharan Africa – Nigeria Node (MS4SSA)</p> <p>NJCTL Breakout Sessions</p> <p>Themes: Mathematics Algebra-Based Physics</p> <p style="text-align: right;">(ADB Conference Hall)</p> | | | | | | | | | | | | | | | | | | | | | |
| 16:45 | 17:00 | <p>Discussion/Q & A</p> | | | | | | | | | | | | | | | | | | | | | |
| 17:00 | | <p style="text-align: center;">Transport from AUST to Hotels</p> <p style="text-align: center;">(Transportation pick up at Mandela Hall Car Park)</p> | | | | | | | | | | | | | | | | | | | | | |
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| Thursday, July 13, 2017 | | | | | | | | | | | | | | | | | | | | | | | |
| 9:00 | 9:30 | <p>Mathematics & Science for Sub-Saharan Africa – Nigeria Node (MS4SSA)</p> <p><i>Introduction to the Materials Science, Robotics and Project-Based Learning Modules – Prof. Wole Soboyejo (WPI)</i></p> <p style="text-align: right;">(ADB Conference Hall)</p> | | | | | | | | | | | | | | | | | | | | | |
| 9:30 | 10:00 | <p>Discussions/Q & A</p> | | | | | | | | | | | | | | | | | | | | | |
| 10:00 | 10:30 | <p style="text-align: center;">Tea Break</p> <p style="text-align: center;">(Tech Cafe, Mandela Hall)</p> | | | | | | | | | | | | | | | | | | | | | |
| 10:30 | 12:00 | <p>Mathematics & Science for Sub-Saharan Africa – Nigeria Node (MS4SSA)</p> <p><i>Introduction to Project-Based Learning, Modules and Assessments- Ms. Paula Quinn</i></p> <p style="text-align: right;">(ADB Conference Hall)</p> | | | | | | | | | | | | | | | | | | | | | |

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| 12:00 | 12:30 | Discussion/Q & A |
| 12:30 | 14:00 | Lunch <i>(PTDF Hall/Zenith Hall/Tech Cafe, Mandela Hall)</i> |
| 14:00 | 15:30 | Mathematics & Science for Sub-Saharan Africa – Nigeria Node (MS4SSA) <i>Solar Lanterns Project-Based Modules- Dr. Zebaze Kana (KWASU/WPI)</i> <i>(ADB Conference Hall)</i> |
| 15:30 | 16:00 | Tea Break <i>(Café Lounge, ADB Lab)</i> |
| 16:00 | 16:45 | Mathematics & Science for Sub-Saharan Africa – Nigeria Node (MS4SSA) <i>Ceramic Water Purification Module- Prof. Wole Soboyejo (WPI)</i> <i>(ADB Conference Hall)</i> |
| 16:45 | 18:00 | Discussion/Q & A |
| 18:00 | | Transport from AUST to Hotels <i>(Transportation pick up at Mandela Hall Car Park)</i> |
| Start | End | |
| Friday & Saturday, July 14-15, 2017 | | |
| 9:00 | 10:00 | Mathematics & Science for Sub-Saharan Africa – Nigeria Node (MS4SSA) Intro to Robotics- Prof. Wole Soboyejo (WPI) and Mr. Kenekukwu Mbanisi (WPI) <i>(ADB Conference Hall)</i> |
| 10:00 | 10:15 | Discussion/Q & A |
| 10:15 | 10:30 | Tea Break <i>(Café Lounge, ADB Lab)</i> |
| 10:30 | 12:00 | Mathematics & Science for Sub-Saharan Africa – Nigeria Node (MS4SSA) Concurrent Robotics Modules Themes: <i>Mechanics and Motors</i> <i>Programming</i> <i>Rapid Prototyping</i> <i>(ADB Conference Hall)</i> |
| 12:00 | 12:30 | Discussion/Q & A |
| 12:30 | 14:00 | Lunch <i>(PTDF Hall/Zenith Hall/Tech Cafe, Mandela Hall)</i> |
| 14:00 | 15:00 | Mathematics & Science for Sub-Saharan Africa – Nigeria Node (MS4SSA) Concurrent Robotics Modules Themes: <i>Mechanics and Motors</i> <i>Programming</i> <i>Rapid Prototyping</i> <i>(ADB Conference Hall)</i> |
| 15:00 | 15:30 | Discussion/Q & A |

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| 15:30 | 16:00 | | Tea Break (Café Lounge, ADB Lab) |
| 16:00 | 16:45 | | Mathematics & Science for Sub-Saharan Africa – Nigeria Node (MS4SSA) Concurrent Robotics Modules Themes: <i>Mechanics and Motors</i> <i>Programming</i> <i>Rapid Prototyping</i> (ADB Conference Hall) |
| 16:45 | 18:00 | | Discussion/Q & A |
| 17:00 | | | Transport from AUST to Hotels (Transportation pick up at Mandela Hall Car Park) |
| Start | End | | |
| Monday July 17, 2017 | | | |
| 9:00 | 10:00 | | Pan African School for Materials (PASMAT IV) Overview of the Pan African Materials Institute- Prof. Wole Sobyoejo Themes: <i>Multifunctional Group – MS 101</i> <i>Biomaterials – ADB Lab</i> <i>Materials for Energy – ADB Lab</i> |
| 10:00 | 10:30 | | Tea Break (Café Lounge, ADB Lab) |
| 10:30 | 12:30 | | Pan African School for Materials (PASMAT IV) Focused Research Groups(FRGs) Breakout Sessions Themes: <i>Multifunctional Group – MS 101</i> <i>Biomaterials – ADB Lab</i> <i>Materials for Energy – ADB Lab</i> |
| 12:30 | 14:00 | | Lunch (PTDF Hall/Zenith Hall/Tech Cafe, Mandela Hall) |
| 14:00 | 15:30 | | Pan African School for Materials (PASMAT IV) Focused Research Groups(FRGs) Breakout Sessions Themes: <i>Multifunctional Group – MS 101</i> <i>Biomaterials – ADB Lab</i> <i>Materials for Energy – ADB Lab</i> |
| 15:30 | 16:00 | | Tea Break (Café Lounge, ADB Lab) |

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|---|-------|---|
| 16:00 | 17:00 | <p>Pan African School for Materials (PASMAT IV)</p> <p>Focused Research Groups(FRGs) Breakout Sessions</p> <p>Themes: <i>Multifunctional Group – MS 101</i> <i>Biomaterials – ADB Lab</i> <i>Materials for Energy – ADB Lab</i></p> |
| 17:00 | | <p>Transport from AUST to Hotels</p> <p><i>(Transportation pick up at Mandela Hall Car Park)</i></p> |
| Tuesday – Friday, July 18 – 21, 2017 | | |
| 9:00 | 10:00 | <p>Pan African School for Materials (PASMAT IV)</p> <p>Focused Research Groups(FRGs) Breakout Sessions</p> <p>Themes: <i>Multifunctional Group – MS 101</i> <i>Biomaterials – ADB Lab</i> <i>Materials for Energy – ADB Lab</i></p> |
| 10:00 | 10:30 | <p>Tea Break</p> <p><i>(Café Lounge, ADB Lab)</i></p> |
| 10:30 | 12:30 | <p>Pan African School for Materials (PASMAT IV)</p> <p>Focused Research Groups(FRGs) Breakout Sessions</p> <p>Themes: <i>Multifunctional Group – MS 101</i> <i>Biomaterials – ADB Lab</i> <i>Materials for Energy – ADB Lab</i></p> |
| 12:30 | 14:00 | <p>Lunch</p> <p><i>(PTDF Hall/Zenith Hall/Tech Cafe, Mandela Hall)</i></p> |
| 14:00 | 15:30 | <p>Pan African School for Materials (PASMAT IV)</p> <p>Focused Research Groups(FRGs) Breakout Sessions</p> <p>Themes: <i>Multifunctional Group – MS 101</i> <i>Biomaterials – ADB Lab</i> <i>Materials for Energy – ADB Lab</i></p> |
| 15:30 | 16:00 | <p>Tea Break</p> <p><i>(Café Lounge, ADB Lab)</i></p> |
| 16:00 | 17:00 | <p>Pan African School for Materials (PASMAT IV)</p> <p>Focused Research Groups(FRGs) Breakout Sessions</p> <p>Themes: <i>Multifunctional Group – MS 101</i> <i>Biomaterials – ADB Lab</i> <i>Materials for Energy – ADB Lab</i></p> |
| 17:00 | | <p>Transport from AUST to Hotels</p> <p><i>(Transportation pick up at Mandela Hall Car Park)</i></p> |