RIFT VALLEY TECHNICAL TRAINING INSTITUTE
PROGRAMME FOR THE 6TH INTERNATIONAL TVET AND INTERDISCIPLINARY CONFERENCE
June 29th – 1st July 2017

Theme: Towards collaborative TVET: Promoting accelerated sustainable development

<table>
<thead>
<tr>
<th>TECHNICAL SESSION 1</th>
<th>Day 1</th>
<th>11 am – 1 pm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Greening TVET Best Practices and case studies</td>
</tr>
</tbody>
</table>

**TRACK 1**
**The Paul Matelong Library**

<table>
<thead>
<tr>
<th>TIME</th>
<th>ITEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.00</td>
<td>Arrival and Registration</td>
</tr>
<tr>
<td>08.30</td>
<td>Introductions</td>
</tr>
<tr>
<td></td>
<td>Welcome &amp; Opening remarks</td>
</tr>
<tr>
<td></td>
<td>Official Opening</td>
</tr>
<tr>
<td></td>
<td>Key Note Presentation</td>
</tr>
<tr>
<td></td>
<td>UNEVOC Presentation</td>
</tr>
</tbody>
</table>

**HEALTH BREAK**

---

1. **The Impact of Green Economy on TVET Trainings in Mombasa County, Kenya**
   
   ¹Bozo Jenje Bozo, ²Miano Kihu Peter & ³Wandago Benson Odongo
   
   ¹University of Nairobi & ²Kenya Coast National Polytechnic

2. **Environmental Scanning: A Sustainable Development Tool for TVET**
   
   Riungu Festus Kinyua & Thomas Senaji
   
   Thika Technical Training Institute, Kenya

3. **The Role of Environmental Auditing and Monitoring in Greening TVET: A Case Study of Ol’lessos Technical Training Institute**
   
   Samuel Wairiuko Ndiritu
   
   Ol’lessos Technical Training Institute, Kapsabet, Kenya

4. **A Government Driven Approach towards Green ICT Driven Economies**
   
   Felister Wanyaga Munyi & Njeru Kevin
   
   Thika Technical Training Institute & Mount Kenya University, Kenya

5. **TVET in Driving Sustainable Development: Skills for Youth Empowerment through Master Craft Practicum**
   
   AlwodoBennedy
   
   BTC-Irish Aid Project, Karamoja Region, Uganda

6. **Scientific Equipment Building as a Teaching and Learning Tool for Physics Education**
   
   Mark L. Gordon
   
   UNISA, South Africa
### TECHNICAL SESSION 1  
**Day 1**  
**11 am – 1 pm**  
**TVET in driving Sustainable Technologies**

<table>
<thead>
<tr>
<th>TRACK 2 Conference Hall</th>
<th>Session Chair:</th>
<th>Rapporteur:</th>
</tr>
</thead>
</table>
| 1. **Communication: The Missing Link in Popularizing TVET in Kenya**  
  Wandago Benson Odongo, 1Miano Kihu Peter & 2Bozo Jenje &Mwangi Ayub Mutua  
  1Kenya Coast National Polytechnic & 2University of Nairobi | | |
| 2. **Influence of Facilities on Implementation of Technical, Vocational Education and Training in Vihiga County, Kenya**  
  Dr. Evans Vidija Sagwa, PhD, MIHRM, Lic.HRP  
  Technical University of Kenya, Nairobi Kenya | | |
  Hillary Kirior,  
  Rift valley Technical Training Institute, Eldoret | | |
| 4. **Factors Affecting TVET Responsiveness to Youth Employability in Arsi Zone of Oromia Regional State**  
  EndalewFufa (PhD)  
  Arsi University, Ethiopia | | |
| 5. **Talent Management Practices and Service Delivery by TVET Institutions in Western Kenya**  
  Simiyu J. & Musasia, M. B.  
  Masinde Muliro University of Science and Technology, Kakamega &  
  Mt. Kenya University, Kitale Campus, Kitale, Kenya | | |
  Prof. John Simiyu  
  Eldoret University, Kenya | | |

### TECHNICAL SESSION 1  
**Day 1**  
**11 am – 1 pm**  
**TVET in Accelerated Sustainable Technology**

<table>
<thead>
<tr>
<th>TRACK 3 Seminar Room 1</th>
<th>Session Chair:</th>
<th>Rapporteur:</th>
</tr>
</thead>
</table>
| 1. **Towards Sustainable Energy Development in TVET Institutions: The Perspective of Renewable Energy Technology in RVTTI**  
  David Busienei  
  Rift Valley Technical Training Institute, Eldoret, Kenya | | |
| 2. **Effects of Climate Change on Adoption of Solar Energy among Industries and Residential Houses in Nairobi County Kenya**  
  Ndolo Sophia & Wambu, C. K.  
  Emining Technical Training Institute, Mogotio | | |
| 3. **Risk Factors for Road Crashes in UasinGishu and Bungoma Counties, Kenya** | | |
4. **Evaluation of Sewage Effluent Received by Sambul River**
   Ali Kipchumba Rono
   Moi University, Eldoret, Kenya

5. **Impact of Current Harmonics Emanating from Domestic Loads on LV Network and Distribution Transformers: Case Study**
   Charles Ndungu
   Institute of Energy Studies and Research - Kenya Power, Kenya

   Ontumbi George Morara (M.sc)
   University of Eldoret, Kenya

---

**TECHNICAL SESSION 1**

**Day 1**

**11 am – 1 pm**

**TRACK 4**

**Seminar Room 2**

**Session Chair:**

**Rapporteur:**

1. **Effect of Health and Safety on Organizational Performance in Nakumatt Holdings, Eldoret**
   Alice Likalama, Raphael Murei, Denis Momanyi
   University of Nairobi, Eldoret Polytechnic & Kisii University, Kenya

2. **The Role of Technical and Vocational Education Training Institution in Green Economy: TVET in Accelerated Sustainable Economy**
   Kiruga Abraham Mutitu & Wandago Odongo Benson
   University of Nairobi & Kenya Coast National Polytechnic, Kenya

3. **How Church Owned Businesses Promote Sustainability of the Church: Case of Selected Churches in Nairobi, Kenya**
   Caroline Njambi Kitawi & Dancan N. Irungu
   Daystar University, Nairobi, Kenya

4. **Entrepreneurship Education on personality traits among Technical and Vocational Education and Training students towards self-employment intention in Kenya**
   David M. Kahando, Dr. Esther N. Mungai, Tirus Muya Maina
   Technical University of Kenya & Murang'a University of Technology, Kenya

5. **Promoting Volunteerism and Social Entrepreneurship in TVET for Accelerated Sustainable Development: The Kwara State University Model**
   Dr. Lawrence Femi Ademiluyi & Dr. J. S. Oyedele
   Osun State Polytechnic, Iree & Kwara State University, Malete, Nigeria

6. **Social and Economic Sustainability of Employment Intensive Methods of Road Construction**
   Charles Mutethia & John Mungai Gicheha
   Civil and Building School
   Kenya Institute of Highways and Building Technology

---

**TECHNICAL SESSION 2**

**Day 1**

**2 pm - 5 pm**
<table>
<thead>
<tr>
<th>TECHNICAL SESSION 2</th>
<th>Day 1</th>
<th>2 pm - 5 pm</th>
</tr>
</thead>
<tbody>
<tr>
<td>TVET in driving Sustainable Technologies</td>
<td>Conference Hall</td>
<td></td>
</tr>
<tr>
<td>TRACK 2</td>
<td>Session Chair:</td>
<td>Rapporteur:</td>
</tr>
</tbody>
</table>

1. **Vocational Skills Training as a Tool for Durable Solution to Refugees in Kenya**  
   Waweru Irene Wanjiku  
   Jomo Kenyatta University of Agriculture and Technology, Kenya

2. **Engagement of Private Sector in Skill Development Training to Improve Employability: A Study of Cases on India**  
   Dr. Prageetha G Raju  
   Symbiosis International University – Pune, Telangana, India

3. **The Role of TVET in Industrialization and in Addressing Unemployment in Kenya**  
   Dr. Jason Makhumi Wapukha & Dr. John WekesaWanjala  
   Murang’a University of Technology, Kenya

4. **An Investigation on Employability Skills in TVET Institutions in Mombasa County**
5. **Effects of Institute - Industry Linkages in Skill based Training under the Scheme of Community Development through Polytechnics in India**  
   1. Dr. D. K. Parmar & 2. Dr. A. K. Jain  
   1. Applied Mechanics Department, B.B.I.T, V. V. Nagar, Gujarat &  
   2. Civil & Environmental Department, NITTTR Bhopal, MP, India

6. **Matching Jobs and Skills in Technical and Vocational Education and Training**  
   Omole, Alfred Sunday  
   Federal College of Education Technical, Gusau Zamfara State, Nigeria

7. **From Leaner Electrician to Mechatronics Technician - Exploring the Possibilities**  
   Mark L. Gordon  
   UNISA, South Arica

8. **Issues and Challenges of Industrial Attachment in Technical and Vocational Education and Training Institutions in Western Kenya**  
   Jonah Kipyegon Ronoh & Josephat Kiprono Mutai  
   Sigalagala National Polytechnic, Kakamega, Kenya

9. **Influence of Industrial Attachment on Trainees’ Completion in Vocational Training Centres: A Case of Elgeyo Marakwet County, Kenya.**  
   Hoseah Kiplagat, PhD & Ahmed Ferej, PhD  
   University of Eldoret, Kenya

10. **Staff Back-to-Industry Program and its Effects on Performance: A Case of Rift Valley Technical Training Institute, Eldoret**  
    Joseah Kiplangat  
    Rift Valley Technical Training Institute, Kenya

---

**TECHNICAL SESSION 2**  
**Day 1**  
2 pm - 5 pm  
**TVET in Accelerated Sustainable Technology**

**TRACK 3**  
**Seminar Room 1**

**Session Chair: Rapporteur:**

1. **Effect of Community Health Strategy on Latrine Coverage in Mwingi West Subcounty: A Pretest-Post Test Experiment**  
   1. Japheth Mativo Nzioki & 2. Dr. Agness Korir  
   1. University of Kabianga, Kericho & 2. Daystar University, Athi-River- Kenya

2. **Efficacy of Rapid Diagnostic Test over Blood Slide Microscopy Method used in Diagnosis of Malaria At AIC Kapsowar Mission Hospital, Kenya**  
   Rono Salinah J. & Yego Esther M.  
   University of Eldoret & AIC Kapsowar Mission Hospital, Kenya

3. **Investigating Public Awareness on Use of Expanded Polystyrene (EPS) for Sustainable Development in (Rual) Kenya**
Esther Omayio  
State Department of Livestock Production, Nandi County, Kapsabet, Kenya

5. **Antagonistic Bacteria from Untilled and Tilled Potato Farms in Timboroa, UasinGishu, Kenya**  
Kipkogei Chemitei  
University of Eldoret, Kenya

6. **Sustainable Environmental Management through Conservation Agriculture: Cultivating Oxytenanthera & Africa Bamboo Tree Appropriate Technologies to Combat Climate Change for Sustainable Consumption and Production**  
Lydia N. Mburia  
Wote Technical Training College, Kenya

7. **Willingness to Pay for an Alternative Local Ready to use Therapeutic Food for Management of Malnutrition in Western Kenya**  
1Barasa Augustine Wafula, 1Odwoi Paul Okelo & 2Chepng′eno Winrose  
1University of Eldoret & 2Moi University, Eldoret, Kenya

8. **Prevalence of Bacterial Wilt in Potatoes in Kapyego Village, Elgeyo – Marakwet County**  
Rono Salinah J & Maina Emmaculate J  
University of Eldoret, Kenya

9. **Influence of Drought Tolerant Crop Farming on Food Security in ASALs Kenya: A Case of Tambach Division, Elgeyo Marakwet County**  
Emmanuel Kipkorir Seroney & Fr. Richard Kimeli  
Kaiboi Technical Training Institute & Catholic University of Eastern Africa, Eldoret Campus

10. **Effect of Seed Coat Color on the Seed Quality of Water Melon (Citrullus Lanatus)**  
Maina F. N. W. & Nyambura, S.K.  
University of Eldoret, Kenya

11. **Control of Panicum Weed (Panicum repens) in Sugar Cane (Saccharum officinarum) Fields**  
1Miroya, K. M., 1Ngode & 2Ondiek, M. M.  
1Rift Valley Technical Training Institute & 2University of Eldoret, Eldoret Kenya

12. **The Morphological Diversity of Fusarium Wilt (Fusarium oxysporum) in Tomatoes (lycopersiconesculentum)**  
1Sindani, K. S, 1J.O Were & 2Miroya, M. K  
1University of Eldoret & 2Rift Valley Technical Training Institute, Eldoret, Kenya

---

**TECHNICAL SESSION 2**  
**Day 1**  
2pm – 5pm

**TVET in Accelerated Sustainable Economy**

**TRACK 4**  
**Seminar Room 2**

**Session Chair:**  
**Rapporteur:**

1. **Application of ICT in the Teaching of Journalism in Nigerian Polytechnics**  
Abiola Olutope Lawrence
   Kataka J. Karani  
   Rift Valley Technical Training Institute, Eldoret, Kenya

3. **E-Learning as a Tool for Transforming TVET from Idea to Action in Developing Economies: Case of Kenya**  
   1. Munyi Felister Wanyaga & 2. Dr. J Gikandi  

4. **Distance Learning Model for TVET Training**  
   Paul Wanjora Kariuki  
   Thika Technical Training Institute, Kenya

5. **BYOD: A Green Computing Approach to Greening Institutions of Higher Learning**  
   Mutwiwa Petronilla Ndunge & John Wachira Kamau  
   Mount Kenya University, Kenya

6. **TVET in Driving Sustainable Development: Strategies for Mitigating Challenges Associated with the Integration of ICT in Instruction of Engineering Subjects**  
   1. Andrew Kiplagat Saina, 2. Prof. C. Mukwa, & 3. Prof. M. Kyalo  
   1. Eldoret National Polytechnic & 2. Moi University, Kenya

### DAY 2

<table>
<thead>
<tr>
<th>TIME</th>
<th>ITEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00am</td>
<td>Arrival and Registration</td>
</tr>
<tr>
<td>08:30am</td>
<td>Introductions</td>
</tr>
<tr>
<td>9:00am</td>
<td>Brief on RVTTI conference, KJ-TVET and AfriTVET Journals</td>
</tr>
<tr>
<td></td>
<td>Guest presentations</td>
</tr>
<tr>
<td></td>
<td>Guest presentations</td>
</tr>
<tr>
<td>10:00am</td>
<td>Health Break</td>
</tr>
</tbody>
</table>

### TECHNICAL SESSION 3

**Day 2 11:00 am – 1pm**  
**TVET in Driving Sustainable Development**

**TRACK 1**  
**The Paul Matelong Library**

**Session Chair:**  
**Rapporteur:**
1. **Analysis of Opportunities and Challenges Encountered by Female Students Pursuing Engineering in TVET Institutions, for Sustainable Development: A Case of Nairobi County**
   S. Okemwa, J. M. Momanyi & D. O. Omwansa
   Kabete National Polytechnic, Nairobi County, Kenya

2. **Strategic Empowerment of Women through Technical Education, Training and Employment in Kenya: A Case study of Thika Town**
   Felista. W. Maina
   Thika Technical Training Institute, Kenya

3. **Gender Issues and Attainment of Sustainable Development Goals: A Synthesis of Linkages**
   Esther Omayio,
   State Department of Livestock Production, Nandi County, Kapsabet, Kenya

4. **Enabling Access to TVET Training: A Case Study of Mombasa County**
   ¹Wandago Benson Odongo, ²Miano Kihu Peter, ³Bozo Jenje& ⁴Mwangi Ayub Mutua
   ¹Kenya Coast National Polytechnic & ⁴University of Nairobi, Kenya

5. **Overcoming a Culture of Silence: Re-imagining Responsive and Sustainable Vocational Pedagogies at the Intersection of a Capabilities and Humanizing Pedagogy Approach**
   Dr. Kathija Yassim
   Nelson Mandela University, Port Elizabeth, South Africa

6. **Communication and Technology as Drivers of Successful Strategic Plan Implementation**
   Corizon A. Odinga & Dr. Dancan N. Irungu
   Daystar University, Kenya

7. **Adoption of Grid Technology Application in Referral Hospitals**
   ¹Anither Rotich; ²Dr. D. Gichoya; ³Prof. D. Rotich

---

**TECHNICAL SESSION 3**

**Day 2**

**11:00am – 1pm**

**TVET in Accelerated Sustainable Employment**

**TRACK 2**

**Conference Hall**

**Session Chair:**

**Rapporteur:**

   Denis Momanyi Nyangau & Likalama Alice
   Kisii University & University of Nairobi, Kenya

2. **Revisiting Customer Attitudinal Loyalty: The Place of Conscientiousness Personality Trait with Reference to the Hotel Industry**
   Julie Makomere & Wambui E. Ng’ang’a
   University of Eldoret, Kenya

3. **An Assessment of Financial Training Needs of Public Primary School Head Teachers in Kenya: A Case of Chepkorio, Keiyo South**
   Dr. Kapkiai Moses,
   Kisii University, Kenya
4. **Influence of Selected Socio - Cultural Practices on Internal Efficiency in Selected Public Technical Training Institutions in Baringo County, Kenya**  
   Wambu Charles  
   Eming Technical Training Institute, Baringo County, Kenya

5. **Need for Strengthening National Capacity for the Integration of Sustainable Development Principles in Development Strategies in Kenya**  
   Fatuma Daudi & Sammy Ratemo  
   University of Eldoret, Eldoret, Kenya

## TECHNICAL SESSION 3  
**Day 2**  
11:00 am – 1pm  
**Cross Cutting Themes**

<table>
<thead>
<tr>
<th>Track 3</th>
<th>Seminar Room 1</th>
<th>Rapporteur:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session Chair:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. **Entrepreneurship Education for Development in Africa**  
   Prof. Joseph J. Msambichaka  
   Vice Chancellor, Mbeya University of Science and Technology, Mbeya, Tanzania

2. **Effects of Technology on Labour Force at Barclays Bank, North Rift Region**  
   James Ngugi  
   Moi University, Kenya

3. **The Effects of Microfinance Training on the Sustainability of Small Enterprises in Eldoret Town**  
   Joseph Wanda Angote  
   Ollessos Technical Training Institute, Kenya

   Jane Wangui  
   Thika Technical Training Institute, Kenya

5. **Management Related Challenges that Inhibit the Integration of ICT into Secondary Schools' Financial Accounting Systems in Kenya**  
   Dr. Kapkiai Moses Koei  
   Kisii University, Eldoret Campus, Kenya

6. **Effects of Internal Controls on Financial Performance of Technical and Vocational Training Institutions in Kenya**  
   Kiruga Abraham Mutitu,  
   The University of Nairobi, Kenya

7. **Factors Influencing Survival of Fish Based Small and Medium Sized Enterprises in Nyatike Sub-county, Migori County, Kenya**  
   Sibeyo David Benson  
   Management University of Africa,
<table>
<thead>
<tr>
<th>TRACK 4</th>
<th>Seminar Room 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session Chair:</td>
<td>Rapporteur:</td>
</tr>
</tbody>
</table>
| 1. Editorial Cartoons: Political Impact on Media Practice in Kenya  
  Kurgat Martin Seronei,  
  Moi University, Eldoret, Kenya | |
| 2. Effects of Human Resource Information Systems on Employee Performance: A Case of the Deputy County Commissioner’s Staff, Eldoret West  
  LumayoFedha Mildred  
  Kisii University Eldoret Campus, Kenya | |
| 3. Repositioning Kenya’s National Polytechnics: The Leadership Question  
  1Miano Kihu, 2Bozo Jenje & 3Odongo Wandago  
  1Jomo Kenyatta University of Agriculture & Technology,  
  2Technical University of Mombasa & 3Kenya Coast National Polytechnic, Kenya | |
| 4. Imitation as an Organizational Competitive Strategy  
  Dr Robert Otuya  
  Department of Business Management  
  University of Eldoret | |
| 5. Education Level and Experience of Teachers as Determinants of Enrolment in Home Science Subject: A Case of Elgeyo Marakwet Count  
  1Abigail Chelagat*, 2Kisilu Kitainge & 3Gertrude Were  
  Eldoret University | |

<table>
<thead>
<tr>
<th>TECHNICAL SESSION 4</th>
<th>Day 2 2pm – 3pm</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRACK 1</td>
<td>The Paul Matelong Library</td>
</tr>
<tr>
<td>Session Chair:</td>
<td>Rapporteur:</td>
</tr>
</tbody>
</table>
| 1. TVET in Driving Sustainable Development: Role of Research in SDGs  
  Chrisantus Ayura | |
| 2. The Role of Research in Sustainable Development Goals  
  Veronica Onjoro  
  Mt. Kenya University, Kenya | |
| 3. Job Quality in Benin  
  Kenneth Kponou  
  University of Abomey-Calavi, Benin | |
| 4. Skills Acquisition and their Application in Job Market in UasinGishu  
  Margaret Kaburi Moindi & Shilley K Ombati  
  Rift Valley Technical Training Institute & Kenyatta University Kenya | |

<table>
<thead>
<tr>
<th>TECHNICAL SESSION 4</th>
<th>Day 2 2pm – 3pm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cross cutting issues</td>
<td></td>
</tr>
</tbody>
</table>
1. **How Adoption of Human Resource Development Practices Affects Organizational Performance; Evidence from Spinners and Spinners Limited**
   Lilian Nekesa Wamalwa & Dancan Irungu
   Daystar University, Kenya

2. **Barriers Affecting E-Government Adoption in County Governments in Kenya: A Case of Laikipia County**
   Joseph Gichuki, Prof. G. Wanyembi & David Kibara
   Mt. Kenya University, Thika, Kenya

3. **Level of E-Government Readiness in Kenya: A Case of Laikipia County**
   Joseph Gichuki, Professor G. Wanyemb & David Kibara
   Mt. Kenya University, Thika, Kenya

4. **Challenges facing TVET Institutions in Imparting Practical Skills: A Case of Vocational Training Centers in Kericho County**
   Chebet Joyce Bett
   Rift Valley Technical Training Institute

---

1. **The Priorities to Guarantee Sustainability of Universal Primary Education in Rwenzori Region Western Uganda**
   Nganzi Christopher, Ferej Ahmed & Lydia Kipkoech
   University of Eldoret, Kenya

2. **A Descriptive Study on the Roles and Attitudes of Fathers in Promoting Child Well-being in South Coast, Kenya**
   Kennedy Songola
   Wote Technical Training Institute, Wote-Makueni County, Kenya

3. **The Influence of Task-Based Instruction on English Speaking Skills among Secondary School Learners of Gucha-South Sub-County**
   Juma Emily & Dr. Kapkiai Moses KogeI
   Kisii University, Kenya

4. **Administrative Strategies to Address Wastage in Public Primary Schools in Arid and Semi Arid Areas of Kenya**
   Fredrick Kipkoech Serem & Dr Moses Kapkiai
   Kisii University, Eldoret, Kenya
5. Visual Aid Services as Determinants to Academic Progress of Learners with Hearing Impairments in Early Childhood Education in Kenya
Pamella Lugasi Kayere, Moses Kapkiai (PhD) & Daynaline Jebiwot Kibet
Kisii University, Eldoret, Kenya
<table>
<thead>
<tr>
<th>TIME</th>
<th>ITEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>03:00</td>
<td>Award ceremony</td>
</tr>
<tr>
<td></td>
<td>Conference Communiqué’</td>
</tr>
<tr>
<td></td>
<td>Official Closing</td>
</tr>
<tr>
<td>4:30</td>
<td><strong>HEALTH BREAK/DEPARTURE</strong></td>
</tr>
</tbody>
</table>

### DAY 3

<table>
<thead>
<tr>
<th>TIME</th>
<th>ITEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00</td>
<td><strong>EXCURSION</strong></td>
</tr>
<tr>
<td>04:30</td>
<td><strong>DEPARTURE</strong></td>
</tr>
</tbody>
</table>