

**3<sup>rd</sup> AFRICAN GRADUATE STUDENTS CONFERENCE (AGSC-BDU-2023)**  
**09-10 JUNE, 2023**  
**BAHIR DAR UNIVERSITY, ETHIOPIA**

<b>Opening Session (June 9/2023, morning)</b>		
<b>Morning</b>		<b>Venue: Wisdom Hall</b>
		<b>Moderator: Dr Sintayehu Genet</b>
<b>Time</b>	<b>Events</b>	<b>Executer</b>
08.30 – 09.00am	Registration	Inaugural Committee
08.30 – 09.00am	Participants take their seat	Participants
09.10 – 09.20am	Program Introduction	Dr. Mulugeta Admasu, Chairperson AGSC-BDU-2023
09.20 – 09.30am	Welcome speech	TBA
09.30 – 09.40am	Opening speech	TBA
09.40 – 10.25am	Keynote speaker 1	Prof Berhanu Belay Title: Graduate Program: A pillar for Research and Academia excellence in Universities
10.25 – 10.50am	Tea Break	Hospitality Committee
10.50 – 11.35am	Keynote speaker 2	Prof Enyew Adigo Title: Training the next generation of African Academics
11.35 – 12.00pm	Discussion	Moderator
12.00 – 1.30pm	Lunch Break	Hospitality Committee
<b>June 10/2023, morning</b>		
<b>Morning</b>		<b>Venue: Wisdom Hall</b>
		<b>Moderator: Dr Sintayehu Genet</b>
09.00 – 09.45am	Keynote speaker 3	Prof Masresha Fetene Title: African Knowledge Systems: The imperative for African universities
09.45 – 10.10am	Discussion	Moderator
10.10 – 10.30am	Tea Break	Hospitality Committee

**Paper Presentation Session**  
**Sub Theme: Engineering and Technology**  
**Moderator: Dr Aynadis Molla**

**Venue: Peda Science college smart class (room 11)**  
**June 9/2023 (afternoon)**

Session	Presenter	Title	Time (Afternoon)
Session 1 Chair: Dr Fasikaw Atanaw	Kokeb Zena	Effects of land use/land cover changes on water quality of a watershed in the central highlands of Ethiopia	1.45-2.05pm
	Kindie Bitew	Hydrological Response of Khat (Catha Edulis) Cultivation in Aba Gerima Watershed, Lake Tana Basin, Ethiopia	2.05-2.25pm
	Belachew Desalegna	Proposed Title: Application of artificial intelligence in wind power system optimization and control	2.25-2.45pm
	Edemialem Gedefaye	Modeling, validation, and simulation of solar photovoltaic module and cell parameter extraction using the Newton-Raphson method	2.45-3.05pm
	Molla Addisu	Analysis and Improvement of Distribution System Reliability by Optimization of Distributed Generation	3.05-3.25pm
Coffee break			3.25-3.45pm
Session 2 Chair: Dr. Teshome Mulatie	Melese Shiferawa	A Compressive Review on The Roles of Composite Materials for The Application of Light weighted Automotive Body Spare Parts and Their Environmental advantages: Review	3.45-4.05pm
	Fetene Teshome	Process Advancement and Future Prospects of Shell Mold Casting: A Review	4.05-4.25pm
	Destayehu Addisu	Numerical Analysis of Assessment of Residual Elastic Properties in Damaged Composite Material	4.25-4.45pm
	Agidew Sewnet	Single-Step Synthesis of Graphitic Carbon Nitride Nanomaterials by Directly Calcining the Mixture of Urea and Thiourea: Application for Rhodamine B (RhB) Dye Degradation	4.45-5.05pm

**Paper Presentation Session**  
**Sub Theme: Agriculture and Environmental Sciences (parallel 1)**  
**Moderator: Dr Alemu Abate**

**Venue: Peda Science college smart class (room 14)**  
**June 9/2023 (afternoon)**

Session 1 Chair: Prof Kefyalew Alemayehu	Muluye Fekade	Review on the Use of Dietary Fibre in Broiler Nutrition: GIT Development, Nutrient Utilization and Growth Performance	1.45-2.05pm
	Hussen Ebrahim	Vitamin in Ruminant Nutrition from the Available Feed Resources in Ethiopia: A	2.05-2.25pm

		Review	
	Andualem Tenagne	Quantifying morphological and adaptive traits of indigenous cattle breeds in Northwest Ethiopia”	2.25-2.45pm
	Abebe Misganaw	Crop Production in Ethiopia under Changing Climate Scenario: a case of Farta and Yielmana Densa Districts	2.45-3.05pm
	Birhanu Bayeh	Evaluation of Nutrient Requirements in Bread wheat- Sweet Lupine Intercropping System under Additive Design in North Western Ethiopia	3.05-3.25pm
Coffee break			3.25-3.45pm
Session 2 Chair: Dr. Yayeh Bitew	Fasikaw Belay	Genetic Variability and Traits Association in Garlic ( <i>Allium sativum</i> L.) Germplasm for Growth and Bulb Yield in Northern Ethiopia	3.45-4.05pm
	Zigyalew Gashaw	White Mango Scale ( <i>Aulacaspis Tubercularis</i> N) distribution and its impact on mango production in Ethiopia	4.05-4.25pm
	Hussen Ebrahim	The Basis for Beef Cattle Production: A Review	4.25-4.45pm
	Genet Wudiye	Defining Aggradation Rate of Ribb and Gumara Floodplains: Application of Dendrochronological Approach	4.45-5.05pm
	Dagninet Asrat	Climate-Smart Agriculture Innovations in Dry Land Areas of Ethiopia: Recent Advancements, Challenges, and Future Directions: Review	5.05-5.25pm
<b>June 10/2023 (morning)</b>			
Session 3 Chair: Dr. Solomon Bizuayehu	Antehunegn Belachew	Agricultural productivity and food security in Ethiopia: The role of Social Capital and Climate Smart Agriculture	10.45-11.05am
	Tsegamariam Dula	Impact of Improved Agricultural Technologies on Household Productivity and Welfare: Evidence from Teff production in Gurage Zone, Central Ethiopia	11.05-11.25am
	Abrham Belay	Does climate-smart agriculture improve household income and food security? Evidence from southern Ethiopia	11.25-11.45am
	Alemken Berihun	Stock Assessment and Estimation of current Yield for Tilapia Stock ( <i>Oreochromis niloticus</i> ) Alwero Reservoir, Gambella, Ethiopia	11.45-12.05am
	Sefi Mekonen	Nature-based Solutions to Freshwater Fisheries: Challenges and Opportunities for their Application in Ethiopian Fisheries Management	12.05-12.25am
<b>Paper Presentation Session</b> <b>Sub Theme: Agriculture and Environmental Sciences (parallel 2)</b> <b>Moderator: Dr Alemu Abate</b>			

<b>Venue: Peda Science college smart class (room 11)</b> <b>June 10/2023 (morning)</b>			
Session 1  Chair: Dr. Baye Berihun	Yebirzaf Yeshiwas	Heterogeneous constraints of onion produce and its postharvest harvest handling at different levels of the supply chain: In the Northwestern Ethiopia	10.45-11.05am
	Ewentu Motebayenore	Economic Importance, Potentials, and Constraints of Coffee ( <i>Coffea arabica</i> L.) Production in Ethiopia. A review	11.05-11.25am
	Tiru Tesfa	Review on Postharvest Loss of Tomato in Ethiopia: its Extent, Cause and Copping Measures	11.25-11.45am
	Abebaw Abayneh	Knowledge, Attitude, and Practices of Farmers and Experts about the Effects of Pesticide Residues on agricultural product users and Ecosystems: A case of Fogera District, Ethiopia	11.45-12.05am
	Abebaw Abebe	Alternative Dispute Resolution Rules in the Rural Land Laws and Access to Justice	12.05-12.25am
<b>Paper Presentation Session</b> <b>Sub Theme: Science (Parallel 1)</b> <b>Moderator: Dr Tsegaye Kassa</b>  <b>Venue: Peda Science college smart class (room 15)</b> <b>June 9/2023 (afternoon)</b>			
Parallel Session 1  Chair: Dr. Hailu Sheferaw	Zinabu Gashaw	Fabrication of silver nanoparticles supported on kaolin for highly efficient recyclable catalytic reduction of methylene blue dye from aqueous solution	1.45-2.05pm
	Chaltu Reta	Multielement Analysis Coupled with Chemometrics Modelling for Geographical Origin Classification of Teff [ <i>Eragrostis tef</i> (Zuccagni) Trotter] grains from Amhara Region, Ethiopia	2.05-2.25pm
	Derejaw Yesgat	Effects of Technology-Integrated Chemistry Teaching on Students' Achievement, Attitude, and Retention Capacity: A Systematic Literature Review	2.25-2.45pm
	Nigussie Alebachew	Preparation and Characterization of Multifunctional ternary CuO/ZrO <sub>2</sub> @S-doped g-C <sub>3</sub> N <sub>4</sub> Nanocomposites for environmental remediation Application	2.45-3.05pm
	Meseret Muche	Biology and resources acquisition of mistletoes, and the defense responses of host plants	3.05-3.25pm
Coffee break			3.25-3.45pm
Parallel Session 2  Chair: Ashenafi Abate	Habtamu Tilaye	Modeling Household's Food Insecurity Level in Ethiopia by Ordinal Geo-additive Model	3.45-4.05pm
	Solomon Yeshanew	Multielement Analysis Coupled with Chemometrics Modelling for Geographical Origin Classification of Teff [ <i>Eragrostis tef</i> (Zuccagni) Trotter] grains from Amhara	4.05-4.25pm

		Region, Ethiopia	
	Mulugeta Tesfa	Linear Mixed Model for Genotype Selection of Sorghum yield	4.25-4.45pm
	Yidnekachew	Exploration, Parallel Coordinates Plots and Choropleth Maps of Ethiopian Agricultural Sample Surveys	4.45-5.05pm
	Getahun Mulugeta	Classification of Imbalanced Data using Machine Learning Algorithms to Predict the Risk of Renal Graft Failures in Ethiopia	5.05-5.25pm
<b>June 10/2023 (morning)</b>			
Parallel Session 3 Chair: Dr. Yohanes Gedamu	Mulunesh Amsalu	Fitted cubic spline scheme for Two-Parameter Singularly Perturbed Time-Delay parabolic problems	10.45-11.05am
	Tamiru Melese	Hybrid Convolutional Neural Network and Support Vector Machine for Credit Card Fraud Detection	11.05-11.25am
	Dagnachew Mengstie	Numerical Treatment for Singularly Perturbed Differential Difference Problems via Fitted Operator Method	11.25-11.45am
<b>Paper Presentation Session</b> <b>Sub Theme: Science (Parallel 2)</b> <b>Moderator: Dr Tsegaye Kassa</b> <p style="text-align: right;"><b>Venue: Peda Science college smart class (room 16)</b>  <b>June 9/2023 (afternoon)</b></p>			
Session 1 Chair: Dr. Gurju Awegechew	Mezgebu Manmekto	Modeling Household's Food Insecurity Level in Ethiopia by Ordinal Geo-additive Model	1.45-2.05pm
	Tegegne Getachew	On the Radius of Spatial Analyticity for the Higher-Order Nonlinear Schrödinger Equation	2.05-2.25pm
	Tegegne Getachew	Propagation of Radius of Analyticity for Solutions to a Fourth Order Nonlinear schrödinger equation	2.25-2.45pm
	Girma Desu	Analysis of Thermal and Surface Roughness Effects of Slider Bearing in the case of Turbulent Lubricant Flow using Finite Element Method.	2.45-3.05pm
	Beza Lamesgin	Intuitionistic Fuzzy PMS-subalgebra of a PMS-algebra	3.05-3.25pm
<b>Coffee break</b>			3.25-3.45pm
Session 2 Chair: Dr. Moges Tsega	Dejene Ambisa	The effect of energy deposition hemispherical asymmetry on characteristics of LSTIDs During March 17, 2015 Geomagnetic Storm	3.45-4.05pm
	Yibekal Hailu	Ionospheric and magnetic signatures of extreme space weather events of 17 March and 23 June 2015 over the African sector	4.05-4.25pm
	Balew Getahun	Performance of GPS-TEC assisted NTCM-model to describe the East-African equatorial Ionosphere	4.25-4.45pm
	Derejaw Gardew	Investigation of the interplay between spin density wave and superconductivity in high-	4.45-5.05pm

		temperature iron-based superconductor $[\text{Ba}]_{1-x} [\text{Rb}]_x [\text{Fe}]_2 [\text{As}]_2$	
	Chalachew Lingerew	Artificial Neural Network Based NN-MLT Model Prediction over Low-Latitude Region Using Long-term SABER Observation	5.05-5.25pm
<b>June 10/2023 (morning)</b>			
Session 3 Chair: Dr. Sissay Menkir	Geletaw Behailu.	Energetic Electron flux variations in Outer Radiation belt during strong geomagnetic Storm from 2013 to 2018	10.45-11.05am
	Yeshanew Fikre	Identification of Functional Groups, Phytochemicals and Antibacterial Activity of Coir Pith Part of Cassava Root Using FTIR Spectroscopy	11.05-11.25am
	Bantayehu Aderaw	Studying the Day to Day Effect of F-region Meridional Neutral Wind on the Formation of Post-sunset Equatorial Ionospheric Irregularities	11.25-11.45am
	Mastewal Balew	Prevalence of enteric bacterial pathogens in diarrheic under-five children and their association with the nutritional status in Bahir Dar Zuria District, Northwest Ethiopia	11.45-12.05
	Yibekal Walle	Modeling the Peste des Petits Ruminants (PPR) Disease Transmission Dynamics with Impacts of Vaccination, Immigration and Restocking in Small Ruminant Population	12.05-12.25
<b>Paper Presentation Session</b> <b>Sub Theme: Social Science, Law and Land</b> <b>Moderator: Getahun Kumie</b> <p style="text-align: right;"><b>Venue: Peda Science college smart class (room 101)</b>  <b>June 9/2023 (afternoon)</b></p>			
Session 1 Chair: Professor Arega Bazezew	Endalkachew Mulugeta	The Interplay between Women Cross-Border Migration and Family Background in South Wollo, Ethiopia: The Family Perspective	1.45-2.05pm
	Mohammed Seid	Intensity based Quantification of Land Use Dynamics in the Southern Ethiopian Rift Valley basin	2.05-2.25pm
	Simret Terefe	Spatiotemporal trends in extreme climate variables in Meki watershed of Central Rift Valley basin, Ethiopia	2.25-2.45pm
	Behaylu Girma	A Nutshell on the human Rights Protection and the Predicaments of Conflict-Induced Internally Displaced Persons in Ethiopia	2.45-3.05pm
	Dersolegn Mekonen	Determinants of Urban Food Security Status at Household Level: The Case of Bahir Dar and Gondar Cities of the Amhara Region, Ethiopia	3.05-3.25pm
Coffee break			3.25-3.45pm

Session 2 Chair: Dr. Meseret Zewdu	Niguse Mandefero	Africa's Quest for Reform of the United Nations Security Council: A Just Cause Curbed by Unrealistic Calls	3.45-4.05pm
	Marshet Girmay	Biodiversity and Society: A Dyadic Interplay in the Simien Mountains National Park, Ethiopia	4.05-4.25pm
	Teshale Aklilu	The Historical Exploration of Curriculum Implementation and Challenges to Teacher Education Development in Ethiopia Since 1944	4.25-4.45pm
	Getye Abneh	Investigating Legal Responses to Conflict Related Illicit Migration and Human Trafficking in Ethiopia	4.45-5.05pm
	Ageru Shume	The Riddles of History Education in Ethiopia since the 1940s	5.05-5.25pm
<b>June 10/2023 (morning)</b>			
Session 3 Chair: Dr. Tigab Bezie	Yimegnutal Nibret	What the Academic Discipline of History Claimed and How History Was Actually Taught in Ethiopian Schools? A Review of the Literature	10.45-11.05am
	Ergo Beyene	Examining the practice of Urban Governance using UN-Habitat urban governance index in Gondar City, North West Ethiopia	11.05-11.25am
	Tesfamikael Teshale	Cultural Heritage and Museums: Understanding Stakeholders' Perceptions at Eastern Ethiopia Cities	11.25-11.45am
	Hanan Maregn	Judicial Interpretive Implementation of the Constitutional Right to Freedom of Expression in Ethiopia	11.45-12.05am
	M.G. Beza	Rethinking the Urban Cadastral System in Ethiopia with the advent of Property Tax Reform: The System Approach	12.05-12.25am
<p><b>Paper Presentation Session</b>  <b>Sub Theme: Humanities</b>  <b>Moderator: Dr Zewudie Tamiru</b></p> <p style="text-align: right;"><b>Venue: Peda Science college smart class (room 102)</b>  <b>June 9/2023 (afternoon)</b></p>			
Session 1 Chair: Dr.Dereje Negede	Hailegiorgis Mamo	An investigation of private press journalists' experiences in Ethiopian prisons	1.45-2.05pm
	Yekitie Dagne	Health Communication Practices to Tackle Non-Communicable Diseases in Amhara Region of Ethiopia: Bahir Dar City in Focus	2.05-2.25pm
	Habtemariam	Thematic Analysis of Paraphrasing as an	2.25-2.45pm

	Amare	Intertextual Technique: The case of Mätshäfa Ziq	
	Gemechu Bayisa	Depiction of Basic Rights Abuses in Amelmal's Yältäkoäche Guzo (From 1974-2018)	2.45-3.05pm
	Abraham Gedamu	Politicized Historical Discourse In Tesfaye Gebreab's Yeburqa Zimta (Burqa's Silence)	3.05-3.25pm
Coffee break			3.25-3.45pm
Session 2	Yalew Aklog	Magical Realism in Ethiopian Amharic Cinema	3.45-4.05pm
Chair: Dr.Tesfamariam G/Meskel	Yidinekachew Solomon	Nostalgia in Adam Reta's Yesinibit Kelmat: New Historicism in Perspective	4.05-4.25pm
	Birhanu Chekol	Effects of Input-Based Instruction on the Language Learning Beliefs of EFL Learners: The Case of Debre Markos University, Ethiopia	4.25-4.45pm
	Alebel Guangul	The Nexus between Physician-Patient Communication and Health Outcomes: Level of Patient Communication Satisfaction and Its Impact on Adherence in Ethiopian Comprehensive Specialized Hospitals	4.45-5.05pm
	Mitike Liyew	Post-Traumatic Stress Disorder and Healing mechanisms: A Novel Self-Prisoner in Focus	5.05-5.25pm
June 10/2023 (morning)			
Session 3	Baymot Mekuriaw	"Effects of Teachers' Written Corrective Feedback on the Writing Achievement of First-Year Ethiopian University Students"	10.45-11.05am
Chair: Dr.Ayenew Guadu	Aman Matebie	The Effect of Process Genre Approach of Teaching Writing on Students' Paragraph Writing Performance: The Case of Grade 11 Abay Minch Preparatory School Students	11.05-11.25am
	Haile Abrha	The Effect of the Flipped Learning Model on EFL Learners' Grammar Achievement: The Case of Bahir Dar University Freshman Students	11.25-11.45am
<p><b>Paper Presentation Session</b>  <b>Sub Theme: Health, Education, business &amp; economics and Sport</b>  <b>Moderator: Dr Kassie Dessie</b></p> <p style="text-align: right;"><b>Venue: Peda Science college smart class (TBA)</b>  <b>June 9/2023 (afternoon)</b></p>			
Session 1	Alayu Bogale	Evaluation of Novel Biocredit Rapid Diagnostic Tests for Detection of	1.45-2.05pm



Chair: Prof Netsanet Fantahun		Plasmodium Species, and Prevalence of PfHRP2/3 Gene Deletions Among Febrile Patients at Maksegnit Health Center, Northwest Ethiopia	
	Tesfaneh Shimels	Time to treatment among breast cancer patients at Tikur Anbessa Specialized Hospital, Addis Ababa, Ethiopia: Retrospective Fellow-Up Study	2.05-2.25pm
	Awoke Derbie	HR-HPV E6/E7 mRNA test for the detection of high-grade cervical lesions among women with gynecology complaints in northwest Ethiopia	2.25-2.45pm
	Hylemariam Mihiretie	Structural Basis of Potential SARS-CoV-2 Main Protease Inhibitors from Thymus schimperi	2.45-3.05pm
	Demeku Akalu	The Concurrent Training and Its Effect on Long-Distance Running Performances	3.05-3.25pm
Coffee break			3.25-3.45pm
Session 2  Chair: Wossen Getahun	Zimbelachew Masresha	The Effects of Change Leadership on Employees' Readiness to Change: The Mediating Role of Trust	3.45-4.05pm
	Addis Tsegaye	Challenge in practitioners conceptions and practices of professional development activities at university of Gondar, ethiopia	4.05-4.25pm
	Misahun Shumetu	Instructors' Commitment towards Improving Self-Advocacy Skills of Students with Disabilities in Higher Education Institutions: Evidence from Hawassa University	4.25-4.45pm
	Yalalem Assefa	Modelling the Effect of Social Media in the Relationship between Students' Engagement and Academic Achievement of Undergraduate Students in the Amhara Region Public Universities	4.45-5.05pm