<table>
<thead>
<tr>
<th>Content</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acknowledgement</td>
<td></td>
</tr>
<tr>
<td>Preface</td>
<td></td>
</tr>
<tr>
<td>Wachira, Patrick Kanja (M.Ed): Factors Leading to the Increase in Undesirable Social Behaviour among Students in Selected Nairobi Secondary Schools</td>
<td>1</td>
</tr>
<tr>
<td>Amwayi, Oliver Shitanda (M.Ed): Mastery of Euclidean Plane Geometry among Standard Seven Primary School Pupils: A Case of Kakamega Municipality</td>
<td>2</td>
</tr>
<tr>
<td>Onduru, Sarah A.O. (M.Ed): The Cognitive Level of Classroom Instructional Questions and their Implications on Student Achievement in Biology: A Case of Two Schools.</td>
<td>5</td>
</tr>
<tr>
<td>Ochieng, Hellen Anyango (M.Ed): The Influence of Headteachers’ Leadership Styles on Students’ Academic Performance in Mombasa’s Public Secondary Schools.</td>
<td>7</td>
</tr>
<tr>
<td>Shililu, Moses Kennedy (M.Ed): Role of Headteachers in Facilitating Achievement of Social Education and Ethics objectives in Shinyalu Division Secondary Schools.</td>
<td>9</td>
</tr>
<tr>
<td>Mukala Hannington Bulinda (M.Ed): Motivational Factors that affect Primary School Pupil’s Participation in Organized Sport in Shinyalu Division of Kakamega District, Kenya</td>
<td>10</td>
</tr>
<tr>
<td>Ukanda F. Ingubu (M.Ed.): The Effects of Streaming on Mathematics Achievement among Secondary School Pupils in Kisumu, Kenya.</td>
<td>11</td>
</tr>
</tbody>
</table>

Murugami, Margaret W. (M.Ed): Effects of Locus of Control on Self-Concept Among Secondary School Learners in Special Schools in Central Province.


Abubakar, Amina (M.Ed): Preferred Occupations in Mate Selection Among Undergraduate Students of Two Kenyan Universities: Implications for Counselling


Gitahi, Faith Wanjira (M.Ed): Factors Affecting Food Consumption Patterns of the Elderly in Ruambiti Sub-Location Kirinyaga District.

Njoka-Ndwiga, Gillian J. (M.Ed); Manifestations and Causes of Disaffection Towards School among Public Primary School Pupils in Nairobi Province: A Case Study.

Atiamugha, Maria D. (M.Ed): Nutritional Status among Low and High Academic Achievers in Selected Primary Schools in Vihiga Division, Kenya.
Onywera, Vincent Ochieng (M.Ed): Analysis of Acute Injuries Incurred by Players During the 2001 Moi Golden Cup Soccer Tournament in Kenya 29

Mwandoe, Benjamin Mwawasi (M.Ed): The Teaching and Learning of Poetry in English in Secondary Schools in Kenya: An Ethnographic Study of Two Schools in Voi Division. 30

Wachira, Mary Wangechi (M.Ed): Self-Reported Delinquent Behaviour among Secondary School Students in Nairobi. 32

Edwinah Amondi Apunda (M.Ed): Psychological and Socio-Economic Factors Influencing Consumption by Employed Women in a Liberalised Market: A Case of Nairobi City, Kenya 34

Katiambo, Dorcas (M.Ed): Difficulties in Understanding of Fractions Among Standard Six Pupils in Bongoma Municipality, Kenya. 35


Njiru, Henry Muriithi (M.A): The Tragic Mode in Selected Kenyan Written Short Stories 38


Kayi, Calvin (M.A): Effects of The 1997/98 El-Nino Rainfall on Input Costs and Productivity of Nairobi-Based Road Freight Operators. 40


<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Midega Charles Aura (M.Sc.)</td>
<td>Assessment of the Role and Impact of Agroecosystem Diversification on Maize Stemborer, <em>Leucaena Psyllid</em> and their Natural Enemies at the Kenyan Coast.</td>
<td>59</td>
</tr>
<tr>
<td>Muia-Kiio Maria Ndunge (M.Sc.)</td>
<td>Pathogenesis and Immune Responses in Newborn African Green Monkeys <em>Cercopithecus Aethiops</em> Inoculated with Simian Immunodeficiency Virus.</td>
<td>63</td>
</tr>
<tr>
<td>Mulwa Ronald K. (M.Sc.)</td>
<td>The Population Status and Ecology of Taita White-Eye Zosterops (Poliogaster) Silvanus (Peters and Loveridge 1935) in the Fragmented Forests of Taita Hills - Kenya</td>
<td>64</td>
</tr>
<tr>
<td>Arudo John O. (M.P.H.E.)</td>
<td>Estimation of Malaria Related Mortality in Children under Five Years of Age using Passive Surveillance Method in Rural Western Kenya.</td>
<td>65</td>
</tr>
<tr>
<td>Ambani Elizabeth Kurwa (M.P.H.E.)</td>
<td>A Survey on Knowledge, Attitudes and Screening Practices on Cervical Cancer of Dagoretti Women in Nairobi.</td>
<td>67</td>
</tr>
<tr>
<td>Nkham Tadiesse Edmond (M.P.H.E.)</td>
<td>Socio-Cultural Determinants of Pregnancy and the Spread of Sexually Transmitted Infections among Adolescent Residents of Kakuma Refugee Camp, Northern Kenya.</td>
<td>68</td>
</tr>
<tr>
<td>Macharia Jacinta Mary Wachui (M.P.H.E.)</td>
<td>Factors Affecting Compliance with Instructions Given to Mothers on Drug Administration at Health Facilities in Nairobi, Kenya</td>
<td>70</td>
</tr>
<tr>
<td>Wanga Christopher H. (M.P.H.E.)</td>
<td>A Cross Sectional Study on Knowledge Attitude and Practice of Health Reproductive Habits and Contraceptive use among University Students in Nairobi.</td>
<td>72</td>
</tr>
<tr>
<td>Njogu, Eunice Wambui (M.Sc)</td>
<td>Household Food Security and Nutritional Status of Children in Tea and Non-Tea Producing Households in Ndia Division of Kirinyaga District.</td>
<td>73</td>
</tr>
</tbody>
</table>
Sande, Susan (M.Sc.): The Influence of Soil Fertility Management Practices on Diversity and Abundance of Soil Fauna in the Central Highlands of Kenya. 75

Wamakima Francis Muregi (M.Sc.): Antimalarial Activity of Some Kenyan Plants used in Traditional Medicine. 76

Raini, Rebecca Kemunto (M.Sc.): Effect Of Potential Companion Crops on Oviposition, Development and Infestation by Diamondback Moth, *Plutella xylostella* (L.) on Cabbage. 78

Onguso, Justus Mong’are (M.Sc): Genetic Characterization of Cultivated Bananas and Plantains (*Musa Ssp*) in Kenya. 79

Karimi Patrick Mwangi (M.Sc.): Microprocessor Based Multifunction Signal Generator. 81

Thuo Julia Withira (M.P.H.E) Determinants of Non-use of Family Planning among Married Women in Kabati Division Kitui District, Kenya. 82

Ogonda, Lilian Adhiambo (M.Sc): The Expression of Lifa-I, Mac-I and Icam-I On Leucocytes from Patients with Incomplicated and those with Complicated *Plasmodium Falciparum* Malaria. 83

Abuya, Timothy Osebe (M.P.H.E): A Descriptive Study of Private Clinics in a Malaria Endemic Area on the Kenyan Coast: Quality of Care and Patient Compliance. 85

Muhavini, Cleophas Wawire (M.Sc): Lead And Cadmium in Fresh Tobacco and its Products and the Potentiometric Study of their Complexes with Icotinic Acid. 86

Mwaniki, Peter Kabanya (M.P.H.E): Assessment on Utilization of Antenatal and Maternity Services in Mbeere District, Eastern Province, Kenya 87

Arodi, Washington Ouma (M.Sc): Characterisation of Antibodies to Bovine Interleukin 2 and the Use of these Antibodies in Development of a Sensitive Elisa. 88
Kipkorir, Florence C. (M.P.H.E): The Effect of Changed Health Care Financing on Levels of Malaria Specific Morbidity and Mortality in Kericho District, Kenya. 88

Tsuwi, Julius Kazungu (M.Sc): Dynamic Mechanical Analysis of Untreated and Silane Treated Talc Filled High Density Polyethylene (HDPE) Composites. 90

Kamunya, Esther Wairimu (M.Sc): Community Dynamics and Diversity of Ground Dwelling Arthropods Assemblages in a Maize Based Agroforestry System in Mtwapa, Coastal Kenya. 91

Kathuri, Lucy Njoki (M.Sc): Students’ Perceptions of the Marriage Institution: A Survey of Selected Colleges in Embu, Kenya. 92

Mativo, Gabriel Kioko (M.Sc): Relationships between the Farming Practices of Small-Scale Farmers and Household Food Security: A Case of Mumoni Division, Mwingi District, Kenya. 94

Ayoo, Esther Awuor (M.Sc): Effects of the Current University Loan Scheme on the Food Consumption Patterns of Public University Students in Kenya. 96

Buluku, Elizabeth A (M.Sc): An Assessment of the Adequacy of School Meals in Meeting the Nutritional Requirements of Girls in Boarding Secondary Schools in Nairobi. 98


Waweru, Rahab Muthoni (M.Sc): “Effectiveness of using Dracaena Fragrans Live Stakes to Support Growing Tomato (Lycopersicon Esculentum) Plants”. 101

Okinyo, Denis (M.Sc): Bio-Prospecting for Phytochemicals for Anopheles Gambiae Larval Control. 103
Ngumbi, Esther Ndumi (M.Sc): Assessment of Kairomones as a Monitoring Tool for Cotesia Flavipes Cameron (Hymenoptera: Braconidae).


Omolo, Maurice Oehilo (M.Sc): Bio-Prospecting for Phytochemical Repellent/Adulticides of Anopheles Gambiae.

Mwangi, Martin Thuo (M.Sc): Enantioselective Synthesis of ®- and (S)- d- Octalactone and their Effects on Glossina Morsitans Host Seeking Host Behaviour.


Thumbi, David Kahuro (M.Sc): Evaluation of Native Isolates of Bacillus thuringiensis and Metarhizium anisopliae for the Control of Plutella xylostella (L.) (Lepidoptera: Plutellidae).

Korir, Kipkoech Erich (M.Sc): Phytochemical Investigation of the Larvicidal Activity of Toddalia asiatica and Ekebergia capensis against Anopheles gambiae.

Mohamed, Karama (M.Sc): The Reliability of a Questionnaire-Based self-Diagnosis in Estimating the Prevalence of Schistosoma haematobium in Kwale District.

Oundo, Joseph Owiti (M.Sc): Phenotypic Characterization of Non-Typhi Salmonella Species Associated with Severe Malaria in Children Admitted to Kilifi District Hospital.

Ong’are, David Walunya (M.Sc): Biological Nitrogen fixation in Drought Resistant Tepary Bean (Phaseolus acutifolius A. gray var. latifolius) in the Semi-Arid Makueni District of Kenya.
Matoka, Charles T.M. (M.Sc): Ecological Studies on Cucumber (Cucumis sativus L.) Pest Spectrum yield Loss Assessment and Potential for Use of Neem Products in Kenya. 117

Kariuki, Peris Mweru (M.Env.Studies.): An Assessment of Impact of Charcoal Making on Distribution of Some Tree Species in Kibwezi Division. 119

Mwangi, Margaret (M.Env. Studies): Soil Invertebrate Macrofauna: Population Dynamics and their Role in Litter Decomposition within a Hedgerow Intercropping in Embu, Kenya. 120

Mathenge, Samuel Ndiritu (M. Env. Studies): Lichen Parmotrema Austrosinense as a Biomonitor of Air Pollution by Heavy Metals in Nairobi. 122


Musabe, Therese (M.Env Studies): Use of Non Timber Forest Products (NTFPs) and Its Ecological Impact on the Conservation Of Nyungwe Forest Reserve in Rwanda. 124

Kihara, Job (M.Env. Studies): Effects of Tree Nursery Growing Media and Farmers' Management Techniques on Seedling Quality in Mount Kenya Region. 125

Kimetu, Joseph M. (M.Env.): Nitrogen Fertilizer Equivalencies for Organic Materials of Contrasting Qualities Based on Maize Performance at Kabete, Kenya. 126


Gicheru Michael Muiga (Ph.D): The Vervet Monkey Model for Leishmaniasis: Characterization, Protective Immunity and Vaccination Against Leishmania Major Infection. 130

Ong'eche John Michael Obor (Ph.D): Characterization of Cytotoxic Lymphocyte Responses to Pre-Erythrocytic Stage Candidate Vaccine Antigens in Kenyans Naturally Exposed to *Plasmodium Falciparum* Malaria.

Emana Getu Degaga (Ph.D): Ecological Analysis of Stem Borer and their Natural Enemies under Maize and Sorghum Based Agroecosystems in Ethiopia.


Abera Teklemariam Haile (Ph.D): Studies on Native Trichogramma (Hymenoptera: Trichogrammatidae) for Biocontrol of Selected Lepidopteran Pests in Kenya.


Girma, Hailu (Ph.D): Insect Pest Problems and their Management in Planted Fallow Crop Rotation in Western Kenya.


Karembu, Margaret Gathoni (Ph.D): Developing Responsible Environmental Behaviour Through Formal School Curriculum:

Okech, Matilda (Ph.D): Studies on Indigenous Bacillus *T. thuringiensis* Isolates Active Against Selected Insect Pests.

Akol, Anne Margaret (Ph.D): Effects of Two Neem Insecticide Formulations on the Trophic Interactions Between the Diamondback Moth, *Plutella Xylostella* (L.) (Lepidoptera: Plutellidae) and its Paraitoids.
Kinai, Theresia Kavuli (Ph.D): Relationship Between Parental Behaviour Towards Adolescents and their Manifest Aggression in Nairobi Secondary Schools. 150


Ngome, Charles Kibabani (Ph.D): The Impact to the School Feeding Programme on the School Participation rates of Primary Pupils in Kajiado District, Kenya. 154

Otieno, Dorcas Beryl (Ph.D): The Importance of a Dynamic School Curriculum in the Promotion of Environmental Ethics in Kenya Schools. 156

Mwaura, Michael Wainaina (Ph.D): The Worlds of Gikuyu Mythology: A Structural Analysis. 158

Wanjama, Leah Njambi (Ph.D): Factors Influencing Gender to the top Levels of Educational Management in Kenya. 159

Gichuki, Cecilia Muringo (Ph.D): The Reproductive and foraging Behaviour of the African Snipe (Gallinago nigripennis) (Bonaparte 1893) in Central Kenya. 162

Muiruri, Philomena Wairimu (Ph.D): Emergence and Management of Competing uses of Public Open spaces in the City of Nairobi. 163
The Annual Postgraduate Seminar provides a forum in which graduates share their research findings and experience with peers and the community of scholars. It is an occasion in which graduates display the product of many years of hardwork. This year’s event is particularly significant because it is the 10th since Kenyatta University started the Postgraduate seminar. It is also unique because more students than ever before are participating. While last year we had 76 Masters and 10 Ph.D. students giving their presentations, this year we have 86 Masters and 21 Ph.D. graduates taking part. This is therefore a time for celebration at Kenyatta University. As we celebrate 10 years of the Postgraduate Seminar at Kenyatta University, however, it is also a time for reflection on the central role of postgraduate education in a changing society. The core mission of graduate education in today’s world cannot be divorced from the mission of the University in general. Firstly, postgraduate education acts as a catalyst for knowledge creation. This is because it is concerned with both basic and applied research. Secondly, postgraduate education concerns itself with the dissemination of the knowledge already created. This is done not only in seminars and conferences but also in academic journals and in the wider society. Thirdly, knowledge and skills created by postgraduate education are applied or made use of in the society. For this to be done, the knowledge and skills created must not only be of high quality, but also relevant to societal needs. Only in this way can society justify the enormous resources that it invests in postgraduate education.

Taking the above in mind, it is in addition important to recognise the fact that the products of graduate education, that is the graduates themselves, must not only be relevant to their society, but they should also be flexible and internationally competitive. They should be able to respond to the changing society. In other words, they should be able to make strategic choices and to re-orient their efforts in order to be of use in a fast changing world. Essentially, their quest for learning and understanding should not end with the attainment of a higher degree, rather they should be life-long students who are always ready to do research and to update their skills and knowledge.

PROF. J. J. ONGONG’A
DEPUTY VICE-CHANCELLOR (ACADEMIC)