

*Isabella P. Makgatswana*

**PERSONAL PROFILE**

**Surname:** Makgatswana (*nee* Ntsabane)  
**Names:** Isabella Paeye  
**Gender:** Female  
**Date of birth:** 21-November 1975  
**Place of birth:** Thamaga, BOTSWANA  
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**ACADEMIC QUALIFICATIONS**

<b>Institution attended</b>	<b>Major</b>	<b>From:</b>	<b>To:</b>	<b>Name of qualification</b>
Kagiso Senior Secondary School	Cambridge O'level	Jan. 1990	Dec. 1992	Cambridge O'Level
University of Botswana	Environmental Science & Biology	Aug. 1994	May 1998	Bachelor Of Science (BSc)
University of Botswana	Science Education	Aug. 1998	May 1999	Post Graduate Diploma in Education (PGDE)
University of Botswana	Environmental Science	Aug. 2001	May 2004	Master Of Science (MSc)
Dublin City University	Leadership & ICT	Oct. 2012	June 2013	Post Graduate Diploma In Leadership & ICT
University of Botswana	Environmental Education	Jan. 2018	present	PhD

### ***PROFESSIONAL QUALIFICATIONS***

<b>Professional qualification</b>	<b>Institution</b>	<b>Date</b>
African Leadership in ICT	Global-e-Schools Initiative (GESI)	October 2012-July 2013
Competence in SPSS	Joint Minds Consult, Gaborone	Sept. 2013
Professional Communication Skills	Botswana Educational Research Association, Gaborone	July 2018
Standards-Based Assessment Moderator Training	Quality Skills & Frameworks Consultancy, Gaborone Quality Skills & Frameworks Consultancy, Gaborone	March 2018 April 2018

### ***WORK EXPERIENCE***

1999-2005: Biology teacher at Kgari Sechele Senior Secondary School  
2001-2004: Tutor for Human & Social Biology at Kweneng Rural Development Association night school  
2005- 2021: Lecturer for Biology & Professional Studies at Molepolole College of Education  
2005-2007: Tutor for Diploma in Primary Education programme  
2009: Science text book manuscript assessor for Pentagon Publishers  
2011- 2021: Head of Department (Science) at Molepolole College of Education  
2019 – present: Assessor for Outcome Based Education  
2021- present: Education Attaché at Washington, DC: Scholarship administration

### **ADMINISTRATION AND MANAGEMENT ROLES**

- Coordinates education affairs at the Botswana mission in Washington, DC
- Administers sponsorship and welfare issues for Botswana sponsored students studying in USA, Canada, Cuba and Caribbeans
- Directed the affairs of the department of sciences as Head of Department
- Reviewed and appraised staff performance in department of Sciences
- Monitored the professional standards of academic staff in the department
- Prepared departmental budget and arranged for acquisition of resources
- Oversaw overall assessment of students doing science
- Oversaw selection of applicants into the department
- Compiled annual and moderators' reports
- Prepared quality assurance reports
- Member of Academic Affairs Council that ratified results and advised senior management of the college

- Drove and oversaw implementation of the college and departmental strategic plan
- Designed and implemented operational policies at college level
- Botswana government tertiary education scholarship administration

### **Positions of Responsibility**

2021-present Education Attache at Botswana mission in Washington, DC, USA

2016-2021 Coordinator for Education for Sustainable Development (ESD) in Molepolole College of Education

2017 College representative at University of Botswana assessment team for affiliation to University of Botswana

2016 Appointed by Director (Teacher Training & Development) to form part of investigation team on assessment issues at Institutes of Health

Sciences

2016-2018 Chairperson of Teaching Practice internal moderation team

2013 - 2014: Secretary of Academic Affairs Council

2011 - present: Head of Department - Science

2011 - present: Member of college Procurement committee

2009: Regional coordinator for Teaching Practice

2008-2011: Represented the Department of Sciences at Teaching Practice Committee

2006: Minute Secretary for the Department of Sciences

### **RESEARCH INTERESTS**

Waste management; teaching competencies; education for sustainable development; Environmental Education.

### **PUBLICATIONS**

Ntsabane-Makgatswana, I.P. (2020). Science trainee teachers' perceived knowledge gaps during teaching practice: Case of Molepolole College of Education. **Journal for Science Technology, Engineering and Mathematics Education in Africa** Volume 3, October 2020 p.1-14  
<https://www.smase-africa.org/wp-content/uploads/2021/08/JSTEMEA-VOL.III-2019.pdf>

Ntsabane, I., Ketlhoilwe, M.J., and Mathews, S. (2017). University of Botswana and Molepolole College of Education Water and Biodiversity Project Molepolole, Botswana. Global Environmental Education Partnership.

[https://naaee.org/sites/default/files/case-study/file/water\\_and\\_biodiversity\\_project.pdf](https://naaee.org/sites/default/files/case-study/file/water_and_biodiversity_project.pdf)

Ntsabane, I.P., Darkoh, M.B.K., Gwebu, T.D. and Totolo, O. (2010). Development of Jwaneng Mine: Economic impacts and environmental implications. **Pula Journal of African Studies** Vol. 24 No.2, 2010: 159-179.  
[https://www.researchgate.net/publication/258119834\\_Development\\_of\\_Jwaneng\\_Mine\\_economic\\_Impacts\\_environmental\\_implications](https://www.researchgate.net/publication/258119834_Development_of_Jwaneng_Mine_economic_Impacts_environmental_implications)

***Ntsabane, I.P., Velempini, K., Garekae, H. and Koosaletse-Mswela, P.***  
**The role of local knowledge in waste management: A case study of Borakalalo ward in Molepolole village, Botswana (accepted for publication with [Socio-Ecological Practice Research Journal](#))**

## **CONFERENCE PRESENTATIONS AND PAPERS**

**July 2016** Effectiveness of teaching practice sessions in improving college students' teaching competencies: case of Molepolole College of Education Science class of 2013-2016. The 16<sup>th</sup> BOLESWANA Biennial Educational Symposium (Gaborone, Botswana) July 12-14, 2016.

**September 2017** Rainwater harvesting and indigenous plants at MCE: a model of living sustainably. EEASA Conference (Maun, Botswana) September 18-22, 2017.

**November 2017** Teacher trainees' preparedness towards using ICT in the classroom: a case of Molepolole College of Education, Botswana. 15<sup>th</sup> Conference for Mathematics Science Technology Education in Africa - COMSTEDA 15 (Livingstone, Zambia) November 14-17, 2017.

**July 2018** Skills audit amongst junior secondary school science teachers: towards the improvement of content delivery. The 17<sup>th</sup> BOLESWANA Biennial Educational Symposium (Windhoek, Namibia) July 17-19, 2018.

**December 2019** Science trainee teachers' perceived knowledge gaps during teaching practice: Case of Molepolole College of Education. The 17<sup>th</sup> Regional Conference for Mathematics, Science and Technology Education in Africa COMSTEDA 17 (Nairobi, Kenya) December 16-20, 2019.

**August 2022** The role of indigenous knowledge systems in waste management: A case study in Molepolole village in Botswana. EEASA Conference (Windhoek, Namibia) August 23-26, 2022.

### **PROJECTS**

Sustainability commons project co-sponsored by UNESCO and WESSA launched in 2017

<https://eeasa.org.za/wp-content/uploads/2017/09/EEASA-Bullitin-2017-issue-2.pdf>

p.21-23

**September 2024** Non-compliance to waste management legislation in Botswana, Ignorance or Indifference? EEASA Conference (Lusaka, Zambia) September 17-19, 2024)

### **TASK FORCES**

**2020-2023:** Appointed by Director (Teacher Training & Technical Education) to form part of task force that spearhead Education and Training Strategic Sector Plan (ETSSP) implementation in colleges of education

**2020:** Quality assurance for Department of Curriculum and Evaluation in Senior School Biology syllabus review

**2018:** Member of the local organising committee for COMSTEDA (Conference on Mathematics Science and Technology Education in Africa) conference hosted by Botswana

**2016:** Appointed by Director (Teacher Training & Development) to form part of investigation team on assessment issues at Institutes of Health Sciences

**2016:** Adjudicator for Botswana Examinations Council (BEC) in comparative study of BGCSE & Cambridge Science papers

### **Communication skills**

- Coordinates education desk at the Embassy of Botswana with various universities in the USA, Canada and Caribbean Islands
- Relates with a wide range of students (from teenagers at secondary schools to tertiary institution students)

- Interacts with university personnel from diverse backgrounds – academic advisors, sports coaches, residence and billing office personnel
- Competent in the use of various online learning platforms both as a student and as an educator like zoom, moodle & interactive smartboard

### **Outreach activities**

- Member of Christian diplomatic community that reaches out and supports new diplomats in Washington, DC

### **HOBBIES**

- Enjoys reading English literature (espionage thrillers)
- Plays crossword puzzles and sudoku

### **REFEREES**

Ambassador M.C. Mophuting  
Embassy of Botswana  
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