

RESUME

Assefa M. Melesse, PhD., P.E., D.WRE
Professor
Institute of Environment
Department of Earth and Environment, AHC-5-390
Florida International University

Summary of main achievements

Research

- Over 550 publications (journal articles, books, book chapters and conference abstracts) since 2000
- **Over 217 peer-reviewed journal articles since 2002**
(<https://faculty.fiu.edu/~melessea/publications/journal-articles/>)
- Published Over 50 peer reviewed journal articles in 2021 and 2022 alone of which 30 of them are in 2022
- **11 books** (1 authored and 10 edited with Springer and Elsevier (2 are in press)
(<https://faculty.fiu.edu/~melessea/publications/books/>)
- **5 of the books since 2019**
- Over 92 book chapters
- **Top 2% world Scientist** by citation in 2019, 2020, 2021 and 2022 (Ranked 277/47,712 in 2021 in the field of Environmental Engineering)
(<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/4>)
- H-Index: 68 ([Google scholar](https://scholar.google.com/citations?user=melessea))
- Over \$20 million research grants as PI, Co-PI and senior Personnel (\$5.5 million over the last 5 years)

Service

- Board of Trustee Member, American Academy of Water Resources Engineers (AAWRE), 2023-
- Reviewer for Nature: Sustainability, Nature: Communications and many others
- Editor, Sensor journal since 2008
- Guest editor for **19 Special issues** (5 are current)
(<https://faculty.fiu.edu/~melessea/publications/edited-special-issues/>)
- Fulbright Scholar (2012)
- Fulbright review panel member 2012 - 2013
- FIU's Fulbright Faculty Liaison
- Board member, Coalition for Lake Tana Restoration
- Panel member for QUAD Fellowship, NSF, and many other funding agencies

Mentoring & Award

- Advised/advising over 73 PhD and master students (15 are current PhD students) (<https://faculty.fiu.edu/~melessea/students/graduate-students/>)
- Graduated **26 PhD students in the last 10 years** from 2013-2023
- 2023/2024: **Jefferson Science Fellowship**: Awarded by the **National Academies of Science and Engineering**
- 2023: University award as Outstanding Graduate Program Director
- 2023: College Award for Excellence in Engagement
- 2023: College Award for Excellence in Research
- 2022: Faculty Award for Excellence in Engagement
- 2020: Faculty Award for Excellence in Advising and Mentorship
- 2019 IETI Fellow (elected) (International Engineering and Technology Institute)
- 2019: College Award for Excellence in Research
- 2018: FIU recognition as Top Scholar for Mentorship
- 2018: College Award for Excellence in Teaching
- 2017: College Award for Excellence in Community Service
- 2016: College Award for Excellence in Research
- 2013: Faculty Award for Excellence in Advising and Mentorship
- 2012: Fulbright Scholar

Engagement

- Founder of Nile Talk Forum (<https://faculty.fiu.edu/~melessea/nile-talk-forum/>)
- Founder of the Environment & Society International conference series (<https://eas-conference.fiu.edu/>)
- Chaired and organized **4 international conferences** since 2020 with participants and presented form over 40 countries (<https://faculty.fiu.edu/~melessea/conferences/>)

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Website: <http://faculty.fiu.edu/~melessea/>

PUBLICATION LINKS

[ORCID](#) [RESEARCHERID](#) [Google Scholar](#) [ResearchGate](#) [Academia](#)

EDUCATION

- **Ph.D.**, Agricultural and Biological Engineering
Concentration: Hydrologic Sciences
Minor 1: Environmental Engineering
Minor 2: Remote Sensing
University of Florida, 2002
- **M.E (Master of Engineering)**, Agricultural and Biological Engineering
Concentration: GIS (Geographic Information Systems)
Minor: Civil Engineering
University of Florida, 2000.
- **M. Eng. Sc (Master of Engineering Science)**., Agricultural Engineering
National University of Ireland, 1991.
- **B.Sc.**, Agricultural Engineering
Alemaya University, 1986.
- **Graduate Certificates**
 - Interdisciplinary GIS, University of Florida, 2002
 - GPS for Planners, University of Florida & TRIMBLE, 2001

2011/2012: Fulbright Scholar (Research and Teaching)

2004/2005: Listed in „**Who is Who in Science and Engineering**“ 8th Edition, 2004

2006/2007: Listed in „**Who is Who in Science and Engineering**“ 9th Edition, 2006

Selected for “**Who is Who in America**”, 2007

Selected for “**Who is Who in American Education**”, 2007

REGISTRATION/CERTIFICATION: Professional Engineer (Civil)

- Florida: License#: 58699
- North Dakota: License#: 4980

Board Certified, Water Resources Engineer

(BC. WRE)

Awards

2023: Jefferson Science Fellowship (2023/2024). Awarded by the National Academies of Sciences
2023: College Award for Excellence in Engagement
2023: College Award for Excellence in Research
2022: Faculty Award for Excellence in Engagement
2020: Faculty Award for Excellence in Advising and Mentorship
2019: College Award for Excellence in Research
2018: FIU recognition as Top Scholar for Mentorship
2018: College Award for Excellence in Teaching
2017: College Award for Excellence in Community Service
2016: College Award for Excellence in Research
2013: Faculty Award for Excellence in Advising and Mentorship

WORK EXPERIENCE

1. 08/2014-

- Professor, Department of Earth and Environment
Florida International University

2. 08/2008-08/2014

- Associate Professor, Department of Earth and Environment
Florida International University

3. 08/2004 – 08/2008

- *Assistant Professor*, Department of Earth and Environment
Florida International University

4. 09/2002 – 08/2004

- *Assistant Professor & Research Assistant Professor*, Earth System Science Institute, School of Aerospace Sciences, University of North Dakota
- *Adjunct Asst. Professor*, Department of Civil Engineering, School of Engineering and Mines, University of North Dakota.

5. 08/1998 – 08/2002: *Research Assistant*, Department of Agricultural and Biological Engineering, University of Florida.

6. 03/1995 – 05/1998: *Assistant Professor II*, Department of Agricultural Engineering, Alemaya University, Ethiopia.

7. 09/ 1986 – 03/1995:

- *Lecturer II* (1991-95)
- *Asst. Lecturer* (1988-89),
- *Graduate Assistant* (1986-88),
Department of Agricultural Engineering, Alemaya University, Ethiopia.

Affiliated Faculty with:

- Department of Civil and Environmental Engineering, FIU
- Honors College (Research), FIU

SELECTED RESEARCH/EDUCATION GRANTS (Over \$20 million):

1. 2024 SFWMD: Geospatial Data analysis for the Groundwater Exchange Monitoring and Modeling (GEMM) Plan, South Florida, \$210,000
2. 2023 SFWMD: Geospatial Data Inventory and Acquisition for the Groundwater Exchange Monitoring and Modeling (GEMM) Plan, South Florida, \$128,000
3. 2020 Walmart Foundation: Social and Environmental Effects of Produce Supply Chains: Assessment and Intervention Strategies for a Resilient Future, Bhat (PI), Melesse (co-PI) and others, \$437,291
4. NSF (2016-2021): NSF CREST Center for Aquatic Chemistry and Environment, Todd (PI), and others, Melesse (Senior Personnel), \$5,000,000
5. NASA (2009-2014) WaterSCAPES: Science of Coupled Aquatic Processes in Ecosystems from Space, \$5,000,000, F. Miralles (PI), R. Price, A. Melesse (Co-PI), H. Fuentes, R. Garcia, D. DeAngelis, D. Fuller, M. Potts, I. Rodriguez-Iturbe, S. Wdowinski.
6. Caribbean Coastal Scenarios (supplemental funding), IAI (2011-2012), (\$17,252). Melesse, A. (PI), M. McClain, J. FU, D. Webber, J. Ortiz,
7. Florida-Caribbean Consortium for Agriculture Education and Hispanic Workforce Development (FCCAge), USDA, (2011-2015), \$3.2 million
Bhat, M., (PI), Jayachandran, Kopter, S., Melesse, A (Senior Personnel)
8. NSF (2010-2011) Water Sustainability and Climate in the Great Lakes Region of East Africa \$136,809, Johnson, T (PI), Melesse (Senior Personnel) and others
9. Internationalization of Biofuel Research, Curriculum and Business, USDA, \$100,000, M. Bhat (PI), Jayachandran, A. Melesse (Co-PI) (2008-2011)
10. Curriculum Enrichment, Instrumentation and Experiential Learning in Agroecology, USDA, \$292,000, M. Bhat (PI), Jayachandran, A. Melesse (Co-PI), and S. Kopter, J. Onsted. (2008-2011).
11. Geospatial and remote sensing application in mapping hotspots of soil erosion in the Minnesota River basin, University of Minnesota, NCED, \$34, 155 (2008-2009) PI

12. Transboundary Water for Biodiversity and Human Health in the Mara River Basin, Kenya and Tanzania, USAID: (2008-2010), (\$1,200,000) (Renewal).
M. McClain (PI), A. Melesse (co-PI)
13. Nile Basin Hydrology and Ecology under Extreme Climatic Conditions.
NSF, (2007-2008), (\$38,048), Melesse, A. (PI), Senay, G.
14. Multicultural Undergraduate Scholars in Agroecology and Urban Landscape at Florida International University: An Interdisciplinary Approach, USDA, (2007-2012) (\$150,000)
Jayachandran (PI), M. Bhat, A. Melesse (Co-PI)
15. Limits to Growth in Agriculture and Emerging Sustainable Farming Systems in Developing Countries, USDA (2006-2008), (\$100, 000).
M. Bhat (PI), Jayachandran, A. Melesse (Co-PI), M. Allen and A. Ravinet
16. Caribbean Coastal Scenarios, IAI (2006-2012), (\$427,426).
A. Melesse (PI: 2009-2012), M. McClain, J. FU, D. Webber, J. Ortiz,
17. Transboundary Water for Biodiversity in the Mara River Basin, Kenya and Tanzania, USAID: (2005-2007), (\$700,000).
M. McClain (PI), A. Melesse (Co-PI)
18. Planning visit to study the effects of vegetation and cropping pattern on soil moisture dynamics and river flow in the Upper Blue Nile Basin, Ethiopia, NSF, (2005-2006) (\$9,896). A. M. Melesse (PI), G. Senay
19. Curricular Development and Capacity Building in Agroecology Sciences, USDA, (2005-2007), (\$229,839).
M. Bhat (PI), Jayachandran, A. Melesse (Co-PI), and S. Kopter
20. Global Water for Sustainability (GLOWS), USAID (PI: McClain), 2004-2009, \$3,750,000.
Melesse: Lead Investigator for hydrological modeling component
21. Northern Great Plains Center for People and the Environment - Year 3, NASA (2003- 04), (\$2,700,000)
Seielstad, G.A (PI), O. Beeri, A. Melesse, P. Carter, R. Hanley, , G. Johnson, S. Laguetta, R. Phillips, S. Seelan, X. Zhang
22. Northern Great Plains Center for People and the Environment - Year 4. NASA (2004-05), (\$2,149,000)

Seielstad, G.A (PI), O. Beeri, A. Melesse, P. Carter, R. Hanley, , G. Johnson, S. Laguette, R. Phillips, S. Seelan, X. Zhang

23. Quantifying Environmental Benefits from Precision Agriculture, USDA-ARS: (2003-2004) (\$347, 000)

Seielstad, G.A, R. Phillips (PI) and A. Melesse

24. Team Express: Crop Range Alert System-Phase 4, Raytheon, 2003 (\$ 688,265)

Seielstad, G.A (PI), O. Beeri, P. Carter, A. Melesse, R. Hanley, G. Johnson, S. Laguette, R. Phillips, S. Seelan, X. Zhang

25. Team Express: Crop Range Alert System-Phase 5, Raytheon, 2004 (\$275,000)

Seielstad, G.A (PI), O. Beeri, P. Carter, R. Hanley, A. Melesse, G. Johnson, S. Laguette, R. Phillips, S. Seelan, X. Zhang.

Postdocs and students

Post-docs

Shimelis G. Setegn, 2009-2012

Mohammad Haji Gholizadeh, 2017-2018

Woubet Alemu, 2018-2020

Yared Bayissa 2019-

Getachew Tegegne 2019-2020

Khabat Khosravi, 2021-2023

Graduate Students

	Name	Degree	Dept./University	Year
Graduated				
1	Jason Oberg	M.Sc	Civil Engineering (UND)	2004
2	Pavel Terselich	M.Sc	Earth and Environment (FIU)	2007
3	John Stiefel	M.Sc	Earth and Environment	2007
4	Christina Hoffman	M.Sc	Earth and Environment	2007
5	Himadri Biswas	M.Sc	Earth and Environment	2008
6	Nenpan Tukunda	M.Sc	Earth and Environment	2009
7	Sirikanth Pilli*	M.Sc	Civil and Env. Engineering	2009
8	Luam Azmera*	M.Sc	Civil and Env. Engineering	2009
9	Sejal Kunchwar*	M.Sc	Civil and Env. Engineering	2009

10	Liya Mango	M.Sc	Earth and Environment	2010
11	Fukhrudin K. Maalim	M.Sc	Earth and Environment	2010
12	Matilde Dugue	M.Sc	Earth and Environment	2010
13	Mengistu B. Defersha	M.Sc	Earth and Environment	2010
14	Genevieve Diamond	M.Sc	Earth and Environment	2011
15	Juliana Msagahaa	M.Sc	Earth and Environment	2012
16	Yirgalem A.Chebud	Ph. D	Earth and Environment	2012
17	Shimelis Behailu	Ph. D	Earth and Environment	2013
18	Leigh Ammon	M.Sc	Earth and Environment	2013
19	Cristobal Ceron	M.Sc	Earth and Environment	2014
20	Audrey Becnel*	M.Sc	Earth and Environment	2014
21	Hari Prasad Kandel	Ph. D	Earth and Environment	2015
22	Tara Blakely	Ph. D	Earth and Environment	2015
23	Mohammad Haji Gholizadeh*	Ph. D	Civil and Environment Engineering	2016
24	Manzar Abbas	M.Sc	Earth and Environment	2018
25	Parker Fink	M.Sc	Earth and Environment	2019
26	Maria Maquez	M.Sc	Earth and Environment	2019
27	Temesgen Kahsai G.	M.Sc	Earth and Environment	2019
28	Anteneh Zewdie Abiy	Ph.D	Earth and Environment	2020
29	Berhane Gebreamlak	M.Sc	Earth and Environment	2020
30	Francisco Pena	Ph.D	Earth and Environment	2021
31	Ikechukwu Onwuka*	PhD	Earth and Environment	2023
32	Angelica Moncada	PhD	Earth and Environment	2023
33	Samuel Kent	PhD	Earth and Environment	2023
Current				
34	Mekdelawit Messay Deribe	PhD	Earth and Environment	2025
35	Ethiopia Zeleke	PhD	Earth and Environment	2025
36	Aujeeta Shehrin Razzaque	PhD	Earth and Environment	2026
37	Priyanka Belbase	PhD	Earth and Environment	2026
38	Tania Islam	PhD	Earth and Environment	2026

* Co-Advisor

Graduate student supervision at other institutions (International collaboration and research)

Graduated				
	Name	Degree	University	Year
39	Mulatie Mekonnen	M.Sc	Bahir Dar University, Ethiopia	2009
40	Tigist Bekele	M.Sc	Bahir Dar University, Ethiopia	2009
41	Meaza Tefera	M.Sc	Bahir Dar University, Ethiopia	2009
42	Haile Getachew	M.Sc	Bahir Dar University, Ethiopia	2012
43	Fiseha Behulu*	Ph.D	Roma Tre University, Italy	2013
44	Anwar Assefa	M.Sc	Bahir Dar University, Ethiopia	2013
45	Mulatu Liyew*	M.Sc	Addis Ababa University, Ethiopia	2013
46	Solomon Berhane*	M.Sc	Addis Ababa University, Ethiopia	2013
47	Moges Asfaw*	M.Sc	Addis Ababa University, Ethiopia	2013
48	Mahtsente Tibebe*	M.Sc	Addis Ababa University, Ethiopia	2013
49	Hassen Mohamed*	Ph.D	Harmaya University, Ethiopia	2014
50	Fitsum Berhe	Ph.D	Addis Ababa University, Ethiopia	2015
51	Belete Berhanu*	Ph.D	Addis Ababa University, Ethiopia	2015
52	Temesgen Enku	Ph.D	Bahir Dar University, Ethiopia	2016
53	Fikru Fentaw*	Ph.D	Addis Ababa University, Ethiopia	2018
54	Alemu Osore*	Ph.D	Addis Ababa University, Ethiopia	2019
55	Agenagnew Asfaw	Ph.D	Ethiopian Space Science and Technology Institute, Ethiopia	2019
56	Hagos Gebreselasie	Ph.D	Addis Ababa University, Ethiopia	2020
57	Minychil Gitaw	Ph.D	Bahir Dar University, Ethiopia	2022
58	Kirubel Mekonnen	Ph.D	Addis Ababa University, Ethiopia	2022
59	Surafel Mamo*	Ph.D	Addis Ababa University, Ethiopia	2023
60	Mengistu Addis	Ph.D	Addis Ababa Science and Technology University	2023
61	Mulugeta Admasu	Ph.D	Addis Ababa Science and Technology University	2023
62	Hailay Zeray	Ph.D	Addis Ababa University, Ethiopia	2023
63	Kindie Engidaw	Ph.D	Addis Ababa University, Ethiopia	2023
64	Bahru Mekuria	Ph.D	Addis Ababa University, Ethiopia	2025
Current				

65	Fekremariam Negash	Ph.D	Addis Ababa Science and Technology University	2023
66	Gutema Debelo	Ph.D	Addis Ababa Science and Technology University	2023
67	Agumase Kinde	Ph.D	Bahir Dar University, Ethiopia	2023
68	Paulos Lukas	Ph.D	Arba Minch University, Ethiopia	2023
69	Haile Belay	Ph.D	Addis Ababa University, Ethiopia	2025
70	Tadela Terefe	Ph.D	Addis Ababa University, Ethiopia	2025
71	Desta Yoseph	Ph.D	Addis Ababa University, Ethiopia	2025
72	Kefale Munye	Ph.D	Bahir Dar University, Ethiopia	2025
73	Melaku Wendachew	Ph.D	Addis Ababa University, Ethiopia	2025

Graduate Committee membership

	Name	Degree	Department
1	Celeste Diaz-Consul	Ph.D	Civil and Environment Engineering, FIU
2	Mehrnoosh Mahmoudi	Ph.D	Earth and Environment, FIU
3	David Lagomasino	Ph.D	Earth and Environment, FIU
4	Adelaide Hummel	Ph.D	Civil and Environment Engineering , FIU
5	Yao Yan	Ph.D	Civil and Environment Engineering, FIU
6	Diana K. Ter-Ghazaryan	Ph.D	International Relations, FIU
7	Mauro Nalesso	Ph.D	Civil and Environment Engineering, FIU
8	Yu Chen	Ph.D	Economics, FIU
9	Beth McCarthney	M.Sc	Earth and Environment, FIU
10	George Atisa	M.Sc	Earth and Environment, FIU
11	Erin Hanan	M.Sc	Earth and Environment, FIU
12	Estefania Sandoval	M.Sc	Earth and Environment, FIU
13	Kelly Gustafson	M.Sc	Earth and Environment, FIU
14	John B. Brakeall	M.Sc	Earth and Environment, FIU
15	Elena Neibaur	M.Sc	Earth and Environment, FIU
16	Wondwossen M. Seyoum	Ph.D	Dept. of Geology, University of Georgia
17	Mario London	M.Sc	Earth and Environment, FIU
18	Amirmasoud Hamed	Ph.D	Civil and Environment Engineering, FIU
19	Tasnuva Mahjabin	M.Sc	Civil and Environment Engineering, FIU
20	Mohamed Islam	M.Sc	Civil and Environment Engineering, FIU
21	Diana Alexis	M.Sc	Earth and Environment, FIU

22	Daniel Bekele	Ph.D	Haramaya University, Ethiopia
23	Mustafa Kamal Sikder	M.Sc	Earth and Environment, FIU
24	Dillon Reio	M.Sc	Earth and Environment, FIU
25	Michael Kiflai	Ph.D	Earth and Environment, FIU
26	James Dautel	M.Sc	Earth and Environment, FIU
27	Shishir Kumar Sarker	M.Sc	Earth and Environment, FIU
28	Nicolas Charles	M.Sc	Earth and Environment, FIU
29	Eric Cruz	Ph.D	International Relations, FIU
30	Boya Zhang	Ph.D	Earth and Environment, FIU
31	Selena Chavez	Ph.D	Earth and Environment, FIU
32	Abera Assefa	Ph.D	Haramaya University, Ethiopia
33	Alefu Chinasho	Ph.D	Haramaya University, Ethiopia
34	Linlong Bian	Ph.D	Civil and Environment Engineering, FIU
35	Nilima Islam	Ph.D	Earth and Environment, FIU
36	Aida Yahyavi Rahimi	Ph.D	Civil and Environment Engineering, FIU

Supervised Research/Independent study projects

Graduate Students

- Renato Stela, 2016, Geo-Spatial Evaluation of Groundwater Monitoring System in South Florida.
- Genevive Diamond, 2008. Rainwater Harvesting for Agriculture in the Bahamas – A Feasibility Study
- Nenpan Tunkuda, 2008, Utilizing GIS and Remote Sensing for Watershed Analysis in the Milk River basin, Jamaica
- Sejal Kuchwar, 2008, Statistical Downscaling for simulating climate change using SDSM
- Sirikanth Pilli, 2008, Estimation of Evapotranspiration using SEBAL Model for the Landsat 7 ETM+ Imagery of South Florida
- Matilde Dugue, 2008, Evaluation of wildlife's habitat restoration in the Lake Apopka.
- Luam Azmera, 2009. GIS-based estimation of ravines sediment load from upland agricultural field for Le Sueur River watershed in Minnesota.
- Yirgalem A. Chebud, 2009. Lake Tana Stage Level and Volumetric Simulation Using

Stochastic Approaches

Undergraduate students

- Debra Deras Coastal Flooding mapping using GIS (2006)
- Imrul Hack Climate change and water resources of South Florida (2006)
- Melisa Miano Land-use change analysis of South Florida (2006)
- Ashley Thomas Sediment analysis and estimation in the Le Suer River, Minnesota (2008)
- Tania Alfred Dams (2010)
- Tempest Newton Water usage in renewable energy systems & conventional energy systems, (2014)
- Jessica Egan The Hydrologic Impacts of Ethiopia: Brought On By and Effecting Human Communities (2014)
- Nathassha Astorga Fog Harvesting: Technology, sustainability and future Panorama (2014)

International Research Scientists and Visiting Scholars hosted

- Prem Rangsiwanichpong, Visiting Scholar 2022, Kasetsart University, Bangkok, Thailand.
- Agenagnew Asfaw (visiting Scholar), Ethiopian Space Science and Technology Institute, June 17-August 16, 2018
- Fikru Fentaw (Visiting Scholar), Addis Ababa Institute of Technology, Addis Ababa University, November 17, 2017-Januray 17, 2018.
- Antonio Anis, (Visiting Scholar), September, 2016-February, 2017, University of Florence, Italy.
- Belete Berhanu, (Courtesy Research Associate), Addis Ababa Institute of Technology, Addis Ababa University, August 1- October 31, 2013.
- Fitsum Tesfaye, (Courtesy Research Associate), Addis Ababa Institute of Technology, Addis Ababa University, September 1-Nov. 30, 2011.
- Orville Grey, University of West Indies at Mona (Ph. D student), Jamaica, July 2011

- Fiseha Behulu (Courtesy Research Associate), Civil Engineering Department, Roma Tre University, Nov. 2010-October 2011
- P. K. Singh (Fulbright Scholar), Maharana Pratap University of Agriculture and Technology, India, Sep. 2009-Jan. 2010
- Flavio Lupia, Italian National Institute for Agricultural Economics, Italy, July-August, 2009
- Shimelis G. Setegn, Royal Institute of Technology, Sweden, March –Nov. 2009

Courses developed/taught at FIU

GIS 3048 Int. to GIS

GIS 5050/EVR 4934 Environmental GIS

EVR 3010 Energy Flow

EVR 4211 Water Resources

EVR 4920 Senior Seminar

EVR 5219 Water Resources Assessment

EVR 7056 GIS in Water Resources

EVR 6268 Remote Sensing in Hydrology

Courses taught at University of North Dakota

GLY 427	Groundwater Modeling	Fall 2003
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Courses taught at Alemaya University, Ethiopia

Ag En 201	Int. to Agricultural Engineering	(1986-87)
Ag En 211	Descriptive Geometry	(1986-87)
Ag En 222	Technical Drawing	(1987-89)
Ag En 331	Engineering Materials	(1991-92)
Ag En 561	Design of Farmstead Structures	(1992-96)
Ag En 332	Strength of Materials	(1994-96)
Agri 162	Int. to Agri. and Forestry	(1995-96)

RESEARCH EXPERIENCE AND INTERESTS

- Spatially distributed hydrologic modeling and scaling
- Climate change and water resources variability
- Integration of hydrological models and remote sensing data into GIS
- Surface and groundwater interactions modeling
- Sediment transport
- Spatial and temporal land cover dynamics and scaling, spatial analysis
- Watershed characterization and modeling using Remote sensing and GIS
- Ecohydrology
- Climate change water resources variability
- ANN, Neuro-fuzzy and data fusion techniques
- Water, carbon and energy flux coupling
- Evapotranspiration estimation using satellite imagery

Reserach geographic area and basin

- Nile River basin (Blue Nile River, Ethiopia)
- Mara River basin (Lake Victoria basin, Kenya & Tanzania)
- South Florida: Everglades, USA
- Caribbean hydrology
 - Jamaica: Rico Cobre River and Great River watersheds
 - Dominican Republic: Haina River and Yuna River watersheds
 - Puerto Rico: Rio Manati and Rio Plat Watersheds

PROFESSIONAL AND UNIVERSITY SERVICE

- Board of Trustee Member, American Academy of Water Resources Engineers (AAWRE), 2023-
- Editor-in-Chief, [Sensors](#), Remote Sensor section
- Editor, Nile River: Climate, land use and hydrology, Springer Science Book

- Guest Editor, Special Issue: Climate, weather and hydrology of East African Highlands" as part of the journal [Hydrology and Earth System Sciences \(HESS\)](#)
- Editor, Special Issue, Sensors journal: [Advances in Remote Sensors for Earth Observation and Modeling of Earth Processes](#)
- Editor, Remote Sensing journal: [Remote Sensing of Water Resources Monitoring, Parametrization and Modeling](#)
- Editor, Special Issue, Sensors: [10 Years Sensors – A Decade of Publishing](#)
- *Special Issue:* [Hydrologic System Analysis, Patterns, and Predictions for Arid and Semi-arid Environment](#), Water
- *Special Issue:* [Sensors and Sensing in Water Quality Assessment and Monitoring](#), Sensors
- Member, Fulbright Panel Review committee, Fulbright, 2012
- Member, Southwest Florida Water Management District (SWFWMD) Agricultural Advisory Committee
- Guest Editor, Special Issue: Climate change, land-use dynamics and ecohydrology of the Nile River basin, [Hydrological Processes](#)
- Member, Editorial Advisory Board, [J. of Spatial Hydrology](#), 2009-2012
- Editor-in-Chief, [J. of Spatial Hydrology](#) (2006-2009)
- Guest Editor, *Special Issue:* [Remote Sensing of Natural Resources and the Environment](#) for **Sensors** journal
- Editor, Proceedings of the [Nile Workshop](#) on the hydrology and ecology of the Nile River under extreme conditions.
- Guest Editor, Special issue [Land Surface Fluxes](#), Remote Sensing journal
- Member, Editorial Advisory Board for [Sensors](#) journal (RS section)
- FIU's Fulbright Faculty Liaison 2018-
- Member, Editorial Board, [Remote Sensing](#) journal
- Member, Graduate Admission Committee (EVR) (2004-2008), 2009-2011
- Member, University-wide Mentor Advisory Board
- Faculty Senate, Alternate Member
- Library Representative, E & E, 2012

- Chair, Curriculum Committee (EVR) 2008-2009
- Member, Curriculum Committee (EVR) (2007-2011)
- Member, Human Resources Committee (E & E) (2012)
- Secretary, Departmental Faculty Meeting (2005/06)
- Member, Science Task Force (EVR) (2005-2006)
- Member, University-wide Remote Sensing and GIS Advisory Committee (FIU) 2004-
- Member of College-wide School of the Environment exploratory Committee (2005)
- Member faculty search committee (Climatology position) (2011)
- Member faculty search committee (Meteorology position) (2010)
- Member, Faculty Advisory Council for Center for African New World Studies
- Director, Graduate Program of Earth and Environment 2019-
- Director, Graduate Certificate in Water, Environment, and Development Studies (WEDev) Program, (EVR)
- Director, Undergraduate Certificate in Environmental Studies Program
- Director, Graduate Certificate in GIS Program (FIU) 2017-
- Member, Coordinating Committee for Certificate in Agroecology, (EVR)
- Member, Graduate Certificate in GIS Program (FIU) 2007-2017
- Member, Sustainability Degree Committee, CAS
- Florida Chapter Representative in SWFWMD, American Society of Agricultural and Biological Engineers (ASABE).
- Alternate FIU Representative, Consortium of Universities for the Advancement of Hydrological Science (CUAHSI)
- Faculty Advisor, FIU AWRA Student Chapter
- Member, EORSA Program Committee, Second International Workshop on Earth Observation and Remote Sensing Applications (EORSA 2012), Tongji University, Shanghai City from June 8 to June 11, 2012.
- Advisory Committee member, [4th International Symposium on Sensor Science \(I3S2015\)](#)
- Advisory Committee member, [5th International Symposium on Sensor Science \(I3S2016\)](#)

- Advisory Board member, Preprints.org

PROFESSIONAL MEMBERSHIP

- Member, International Water Resources Association (IWRA) 2021-
- Member International Water Association (IWA)
- Member, International Association for Hydro-Environment Engineering and Research (IAHR)
- Board of Trustee Member, Academy of American Water Resource Engineers, ASCE
- Order of the Engineer, 2000 – present.
- Member, American Geophysical Union (AGU), (1999 - present)
- Member, American Society of Agricultural Engineers (ASAE), (1999 - present)
- Member, Gamma Beta Chapter of Alpha Epsilon, (2000 - present)

JOURNAL/BOOK CHAPTER REVIEWER

- Nature: Sustainability
- Nature: Communications
- Water Resources Research
- Hydrology and Earth System Sciences (HESS)
- Advances in Water Resources
- Journal of Hydrology
- Remote Sensing of Environment
- Hydrological Processes
- Journal of Environmental Management
- Brazilian Geophysical Society
- Sensors
- Geocarta International
- Natural Hazards Review
- Journal of American Water Resources Association
- Transactions of American Society of Agricultural Engineers: Soil and Water Division
- Transactions of American Society of Agricultural Engineers: Information &

Electrical Technologies Division

- Hydrobiologia
- Hydrological Sciences Journal
- Journal of Water Resources Managment
- Atmospheric Research
- Photogrammetric Engineering and Remote Sensing (PE&RS)
- Journal of Coastal Research
- Journal of Environmental Quality

Book/Book Chapter Review

- Book Review, Springer
- Book Review CRC Press/Taylor & Francis Group
- Scaling issue in Remote sensing, Book review, John Wiley & Sons
- Book Proposal Review, Elsevier (3)

Dissertation/Thesis Review

- SRM Institute of Science and Technology, Tamilnadu, India
- Addis Ababa University
- University of Engineering and Technology, Texila, 3 dissertations
- Bahir Dar University, 3 theses
- University of United Arab Emirates, 1 thesis
- Conference of Southern Graduate Schools Thesis Award
- University of Florence, Italy, Dissertation Review
- Ethiopian Space Science and Technology Institute

PANEL MEMBER/PROPOSALS REVIEWER

- NSF SBIR, Panel
- Quad Fellowship Panel, 2022
- NSF (Panel Review), 2019
- NSF EPSCoR RSV (Panel Review)
- NSF EPSCoR RII,Track-1 Program (Panel Review)

- Oak Ridge Associate Universities (ORAU), Ralph Powe Award Program Review
- Belgian Earth Observation Programme, STEREO III Programme
- Washington Fellowship for Young African Leaders, President Obama Initiative
- Fulbright US Scholar Program Regional Panel Review 2012
- Fulbright African Scholar Program Regional Panel Review 2013
- Fulbright US Scholar Program Discipline Review 2018
- NASA Postdoc Program Review
- Steering Committee Member, HiWET, Belgium, 2016-2018
- REACH, Global Advisory Panel member, 2018-2023
- NSF Environmental Sustainability Program (Panel Review)
- Netherlands Space Office (NSO)
- NSF, Geography and Regional Science Program
- United States Department of Agriculture (USDA)
- U.S. Civilian Research & Development Foundation, Cooperative Grants Program
- The Netherlands Organization for Scientific Research
- National Institute for Space Research Program, Bureau External Research (The Netherlands), Earth Observation Research
- BARD, the United States - Israel Binational Agricultural Research & Development Fund
- NIWR-USGS National Competitive Grants Program
- Cooperative Institute for Coastal and Estuarine Environmental Technology (CICEET)
- Wageningen Institute for Environment and Climate Research (WIMEK,) Wageningen University, Netherlands
- AWRA's Richard A. Herbert Scholarship Award
- International Science Foundation (IFS)
- National Center for Science and Technology Evaluation, Kazakhstan
- Member, Pharmaco-Kinesis Scientific Advisory Board, 2016

- United Arab Emirates University (UAEU)
- Swiss National Science Foundation (SNSF)
- Mississippi-Alabama Sea Grant
- Puerto Rico Science, Technology, and Research Trust (Panel, 2020 and 2023)
- South Central Climate Adaptation Science Center, USGS

PUBLICATIONS

550+ books, journal articles, book chapters, proceedings, edited special issues, conference abstracts/presentations

PUBLICATION LINKS

[Google Scholar](#) [ORCID](#) [RESEARCHERID](#) [RESEARCHGATE](#) [ACADEMIA](#)

*Post-doctoral, **Graduate student advised, ***Undergraduate student advised

Books

1. Melesse, A.M, Gesesse, B, Zewdie, W. *Abbay River Basin: Biophysical Setting, Environmental Degradation, Hydropolitics and Development Potential*, Springer (coming soon)
2. Melesse, AM, Deribe, M., Zeleke, EB (Editors) *Water security Challenges and Land Degradation in Ethiopia*, (Springer, coming soon)
3. Rahmati, O, Melesse, A.M, Naghibi , A. 2024. *Drought and Water Scarcity Management: Towards Application of Artificial Intelligence and Earth Observation Data*, Elsevier (coming soon)
4. Melesse, A.M, Rahmati, O, Khosravi, K. [*Remote Sensing of Soil and Land Surface Processes: Monitoring, Mapping, and Modeling*](#), Elsevier, 2023, eBook ISBN: 9780443153426
5. Melesse, A., Abtew, W., Moges, S.. (Editors), 2020. [*Nile and Grand Ethiopian Renaissance Dam - Past, Present and Future*](#), Springer Nature (525p) ISBN: 978-3-030-76436-4 [[Access Book](#)]
6. Melesse, A., Abtew, W., Senay, S. (Editors), 2019. [*Extreme Hydrology and Climate Variability: Monitoring, Modeling, Adaptation and Mitigation*](#), ISBN: 9780128159989, 600p, Elsevier [[Access Book](#)]
7. Melesse, A., Abtew, W. (Editors). 2016. [*Landscape Dynamics, Soil and Hydrological Processes in varied Climates*](#), ISBN 978-3-319-18787-7, Springer Science Publishers, pp839.

8. Melesse, A.M., Abtew, W., Setegn, S. (Editors). 2013 [*Nile River Basin: Ecohydrological Challenges, Climate Change and Hydropolitics*](#), Springer Science Publishers, ISBN 978-3-319-02720-3, DOI: 10.1007/978-3-319-02720-3, 718p
9. Abtew, W, and **Melesse, AM** 2012. [*Evaporation and Evapotranspiration: Measurements and Estimations*](#), Springer Science Publishers ISBN 978-94-007-4737-1, DOI: 10.1007/978-94-007-4737-1, 206p.
10. Melesse, AM. (Editor), 2011. [*Nile River Basin: Hydrology, Climate and Water Use*](#), Springer Science Publisher, 433p. ISBN 978-94-007-0689-7, DOI 10.1007/978-94-007-0689-7, 419p.
11. Abtew, W, and **Melesse, AM**. (Editors) 2008, [*Proceedings of the Nile Workshop on the hydrology and ecology of the Nile River under extreme conditions*](#), Aardvark Global Publishing, 387p. ISBN 978-1-4276-3150-3

Peer-reviewed published/in-press journal articles

2023

1. Gebeyehu BM, Tegegne G, **Melesse AM**. Reliability-weighted approach for streamflow prediction at ungauged catchments. *Journal of Hydrology*. 2023;624:129935.
2. Onwuka IS, Scinto LJ, Price RM, **Melesse AM**. Dynamics of particles and phosphorus in canals of the lower everglades, Florida, USA. *Science of The Total Environment*. 2023;166508.
3. Ibrahimou B, Burchfield S, Sun N, al. . . E. Unplanned hysterectomy: a comprehensive analysis of race, ethnicity, sociodemographic factors, pregnancy complications, and cardiovascular disease risk factors. *Ethnicity & Health*. 2023;(13557858.2023.2249273):1-15.
4. Kebede, L.; Temesgen, M.; Fanta, A.; Kebede, A.; Rockström, J.; **Melesse, A.M.** Effect of Locally Adapted Conservation Tillage on Runoff, Soil Erosion, and Agronomic Performance in Semiarid Rain-Fed Farming in Ethiopia. *Land* 2023, 12, 593. <https://doi.org/10.3390/land12030593>.
5. **Jemberie, M.A.; **Melesse, A.M.**; Abate, B. Urban Drainage: The Challenges and Failure Assessment Using AHP, Addis Ababa, Ethiopia. *Water* 2023, 15, 957. <https://doi.org/10.3390/w15050957>
6. **Admas, M.; **Melesse, A.M.**; Abate, B.; Tegegne, G. Impacts of Best Management Practices on Runoff, Soil Loss, and Sediment Yield in the Megech Watershed, Ethiopia. *Water* 2023, 15, 788. <https://doi.org/10.3390/w15040788>

7. **Lukas, P., **Melesse, AM.**, and Kenea, TT., 2023, Prediction of Future Land Use/Land Cover Changes Using A Coupled CA-ANN Model in the Upper Omo–Gibe River Basin, Ethiopia, Remote Sensing, 15 (4), 1148, <https://doi.org/10.3390/rs15041148>.
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 10. **BM Gebeyehu, AK Jabir, G Tegegne, **AM Melesse**, 2023. Subbasin Spatial Scale Effects on Hydrological Model Prediction Uncertainty of Extreme Stream Flows in the Omo Gibe River Basin, Ethiopia, Remote Sensing 15 (3), 611
 11. **F Peña, J Obeysekera, R Jane, F Nardi, C Maran, A Cadogan, F de Groen, **Melesse, AM.** 2022. Investigating compound flooding in a low elevation coastal karst environment using multivariate statistical and 2D hydrodynamic modeling, Weather and Climate Extremes, 100534
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12. **H Belay, **Melesse, AM**, G Tegegne, 2022, Merging Satellite Products and Rain-Gauge Observations to Improve Hydrological Simulation: A Review, Earth 3 (4), 1275-1289
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 16. **M Admas, **Melesse, AM**, B Abate, G Tegegne, 2022. Soil Erosion, Sediment Yield, and Runoff Modeling of the Megech Watershed Using the GeoWEPP Model, Hydrology 9 (12), 208
 17. *K Khosravi, A Golkarian, PM Saco, MJ Booij, **Melesse, AM**, 2022. Model Identification and Accuracy for Estimation of Suspended Sediment Load, Geocarto International, 1-27
 18. **Abiy, A.Z.; Wiederholt, R.P.; Lagerwall, G.L.; **Melesse, A.M.**; Davis, S.E. 2022. Multilayer Feedforward Artificial Neural Network Model to Forecast Florida Bay Salinity

with Climate Change. *Water* 2022, 14, 3495. <https://doi.org/10.3390/w14213495>

19. Seka, A.M.; Zhang, J.; Prodhan, F.A.; **Melesse, A.M.** et al. Hydrological drought impacts on water storage variations: a focus on the role of vegetation changes in the East Africa region. A systematic review. *Environ Sci Pollut Res* (2022). <https://doi.org/10.1007/s11356-022-23313-0>
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29. **E Bisrat Zeleke, AM Melesse, BB Kidanewold, 2022. Assessment of Climate and Catchment Control on Drought Propagation in the Tekeze River Basin, Ethiopia, *Water* 14

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31. **K Mekonnen, **AM Melesse**, TA Woldesenbet, 2022. Merging satellite rainfall estimates and daily rain gauge observations for improved flood simulation in MelkaKuntire catchment, upper Awash Basin, Ethiopia, *Remote Sensing Applications: Society and Environment* 25, 100701
32. K Khosravi, ZS Khozani, **AM Melesse**, BM Crookston, 2022. Intelligent flow Discharge computation in a rectangular channel with free overfall condition, *Neural Computing and Applications*, 1-16
33. Shojaei, S., Ashofteh, P., Dwijendra, N. K. A., Melesse, A. M., Shahvaran, A. R., Shojaei, S., & Homayoonnezhad, I. (2022). Impacts on Global Temperature During the First Part of 2020 Due to the Reduction in Human Activities by COVID-19. *Air, Soil and Water Research*. <https://doi.org/10.1177/11786221221101901>
34. **F Peña, F Nardi, **AM Melesse**, J Obeysekera, F Castelli, RM Price, T Crowl, 2022. Compound flood modeling framework for surface–subsurface water interactions, *Natural Hazards and Earth System Sciences* 22 (3), 775-793
35. S Schismenos, D Emmanouloudis, GJ Stevens, ND Katopodes, **AM Melesse**. 2022. Soil governance in Greece: A snapshot, *Soil Security* 6 (100035)
36. ZM Nigatu, D Fan, W You, **AM Melesse**, L Pu, X Yang, X Wan, Z Jiang, 2022. Crop production response to soil moisture and groundwater depletion in the Nile Basin based on multi-source data, *Science of The Total Environment*, 154007
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Journal of Hydrology: Regional Studies, 100950
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46. **Moncada, **A.M.**; **Melesse**, A.M.; Vithanage, J.; Price, R.M. 2021. Long-Term Assessment of Surface Water Quality in a Highly Managed Estuary Basin. *Int. J. Res. Public Health* 2021, 18, 9417. <https://doi.org/10.3390/ijerph18179417>
47. *Bayissa, Y.; **Melesse, A.**; Bhat, M.; Tadesse, T.; Shiferaw, A. Evaluation of Regional Climate Models (RCMs) Using Precipitation and Temperature-Based Climatic Indices: A Case Study of Florida, USA. *Water* 2021, 13, 2411.
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49. **Agumase K. Tefera, Abraham Bayeh Wassie, Berhanu G. Sinshaw, Dessalew T. Defersha, Tesfahun Aleka Takele, Simir Birhan Atanaw, Aniley T. Tesfaye, Edmealem Getu, Habtamu M. Fenta, Haimanot B. Atinkut, Temesgen Enku, Dejene Sahilu, **AM. Melesse** 2021. *Groundwater quality evaluation of the alluvial aquifers using GIS and water quality indices in the Upper Blue Nile Basin, Ethiopia*, *Groundwater for Sustainable Development* 14 (100636) 2021
50. D Bekele, T Alamirew, A Kebede, G Zeleke, **AM Melesse** 2021, *Modeling the impacts of land use and land cover dynamics on hydrological processes of the Keleta watershed, Ethiopia*, *SUSTAINABLE ENVIRONMENT* 7 (1), 1-14 2021

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International Conferences and Forum Organized

1. 2022 International conference on Environment and Society, July 4-6, 2022, Addis Ababa, Ethiopia.
2. 2021 International conference on Environment and Society, November 22-23, 2021, Florida International University, Miami, USA.
3. 2020 International conference on the Nile and GERD, August 20-21, 2020, Florida International University, Miami, USA.
4. Nile Talk Forum, A monthly international webinar series on Nile and transboundary water issues organized by IoE, FIU
5. International conference on the Ecohydrology and climate of the Nile Basin, June, 2008, Ethiopia (NSF funded).

Invited Seminars/Lectures

1. **Nile water security and water rights**, July 22, 2022, Hawassa University, Ethiopia
2. Nile water security and sharing, July 25, 2022, University of Gondar, Ethiopia
3. **Water, Energy and Sediment Fluxes: Monitoring and modeling**, August 10, 2022, Bahir Dar University, Ethiopia
4. **Water Rights and Water Security: Meeting the Demand in the Face of a Shrinking Supply in the Nile Basin**, Jan 18th Tuesday Times Roundtable Presentation, FIU.
5. **Abbay River Basin Hydrology Monitoring, Management and Development**, Ethiopian Space Science and Technology Institute, Addis Ababa Ethiopia, Dec. 28, 2021
6. **Water rights and water security in the Nile Basin: Possible future Directions and implications**, December 23, 2021, Addis Ababa Science and Technology University, Ethiopia.

7. **Transboundary Water Resources Management: Challenges and Lessons**
GLOWS Presentations for Study tour for Ghana Community Water and Sanitation Agency participants, September 16, 2014.
8. **Human and climate induced changes and impacts on hydrologic regimes of selected river basins**, Department of Earth and Environment, Jan. 16, 2013
9. **Water Resource Management challenges in the 21st century: Human and climate induced changes and impacts on hydrologic and sediment regimes of selected river basins**, Mekele University, April 03, 2012.
10. **Hydrologic response of river basins to the human and climate induced changes: Examples from selected studies**, Melkasa Agricultural Research center April 4, 2012.
11. **Water Resource Management challenges in the 21st century: Human and climate induced changes and impacts on hydrologic and sediment regimes of selected river basins**, Arba Minch University, April 6, 2012.
12. **WaterSCAPES: Hydrology of Wetlands from Space**, Department of Civil Engineering, Haramaya University, Feb. 13, 2012
13. **Water Resource Management challenges in the 21st century: Human and climate induced changes and impacts on hydrologic and sediment regimes of selected river basins**, Hawassa University, Feb. 7, 2012.
14. **WaterSCAPES: Hydrology of Wetlands from Space**, Department of Civil Engineering, Addis Ababa University, Dec. 16, 2011
15. **Water Resources challenges in the 21st century: An overview of need-driven research activities across the spectrum of various ecohydrologically diverse regions**, Ethiopian Water Research Institute, Addis Ababa University, Nov. 22, 2011.
16. **Climate Change and Coastal Resources: Caribbean Coastal Scenarios experience**, Ministry of Environment, Dominican Republic, June 29, 2011
17. **Hydrology of the Upper Blue Nile River Basin: Facts, Trends and Indicators of Changes**, January 28, 2011, Department of Earth and Environment, FIU.
18. **Understanding the ecohydrological response of impacted watersheds to restoration: Remote sensing and GIS application**, National Center for Earth-Surface Dynamics, An NSF Center of Excellence, Oct. 30, 2006: University of Minnesota.

19. **Evapotranspiration mapping using remote sensing** (Video conference Lecture), April 2005, Department of Earth Systems and Policy, University of North Dakota.
20. **Evapotranspiration mapping using remote sensing** (Video conference Lecture), April 2006, Department of Earth Systems and Policy, University of North Dakota.
21. **The role of science in integrated water resources management**, July 2006, Alemaya University, Ethiopia.
22. **Water Resources Research: Challenges and opportunities**, 2006, Civil and Environmental Engineering, FIU.
23. **The role of GIS and remote sensing in water resources Research**, 2006, Honor's College, FIU.
24. **GIS and remote sensing in water resources research: Application examples**, Feb. 2006, GIS Day, FIU.
25. **Impervious surface area dynamics and storm runoff response**, Sep. 2006, Environmental Studies, FIU.
26. **Impervious surface Dynamics in South Florida**, Oct. 2006, Applied Research Center, FIU.

Technical Trainings/workshops offered

27. Remote sensing and GIS applications in water Resources, Ethiopian Space Science and Technology Institute, Ethiopia July 17-27, 2018.
28. Potential irrigation area mapping in Amhara Region using GIS and Remote Sensing, Ziway, Ethiopia, December 19-31, 2016.
29. Potential irrigation area mapping in Oromia Region using GIS and Remote Sensing, Bahir Dar, Ethiopia, June 04-16, 2016.
30. Advanced GIS: Application to water resources Engineering, Addis Ababa Institute of Technology, Addis Ababa University, May 7-18, 2012.
31. Climate Change and Water Resources, Bahir Dar University, March 14-17, 2012.
32. Remote Sensing in Hydrology, Bahir Dar University, March 19-23, 2012.
33. Impacts of human and climate change induced drivers on the ecohydrology of the Mara River basin, Egerton University, Kenya, Feb. 16-23, 2012.

34. Impacts of human and climate change induced drivers on the ecohydrology of the Mara River basin, University of Dar es Salaam (UDSM), Tanzania, Feb. 24-29, 2012.
35. Advanced GIS, Bureau of Water Resources, ANRS, SWHISA, 2010, Bahir Dar, Ethiopia.
36. GIS in Water Resources, Bureau of Water Resources, ANRS, SWHISA, 2010, Bahir Dar, Ethiopia.
37. Image Analysis, Bureau of Water Resources, ANRS, SWHISA, 2010, Bahir Dar, Ethiopia.
38. Principles of GIS, Bureau of Water Resources, ANRS, SWHISA, 2009, Bahir Dar, Ethiopia
39. SWAT application in the Caribbean Islands. May 26-27, 2009, Santa Domingo, Dominican Republic.
40. SWAT application in the Caribbean Islands. May 29-30, 2009, Kingston Jamaica.
41. SWAT: Theory and application, May 17-18, 2008, Quito, Ecuador.
42. SWAT application to watershed modeling in the Mara River basin, June 26-27, 2006, Kissimu, Kenya.