

DR. MOHAB KAMAL

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CIVIL AND ENVIRONMENTAL ASSISTANT PROFESSOR

Self-motivated, resourceful professional with hands-on experience. Possess excellent troubleshooting, organizational, and analytical abilities; familiar with many diverse techniques and processes employed in both experimental and theoretical sciences. Exceptional leadership skills and outstanding training capabilities ensure safe practices and the highest quality of workmanship. Strong interpersonal and communication skills; fluent in English and Arabic. Core competencies include:

- ♦ Application Engineering
- ♦ Technical/Non-Technical Presentations
- ♦ Research & Development
- ♦ Team Leadership/Management
- ♦ Interpersonal Communication
- ♦ Environmental Problem Solutions
- ♦ Project Management
- ♦ Civil Structure Design
- ♦ Water Quality Management
- ♦ Water and Wastewater Treatment

EDUCATION & CREDENTIALS

Doctor of Philosophy in Environmental Engineering– Dalhousie University (2006)

Honors: Faculty of Graduate Studies Scholarship; Faculty of Engineering Scholarship

Thesis: “Landfill Leachate Treatment Using Limestone Filter and Constructed Wetland Systems”

Bachelor of Civil and Environmental Engineering – Higher Technological Institute (2000)

Honors: for Outstanding Academic Achievement

COMPLETED COURSES:

1. *Training and Career Development Center, Canadian International College*
Teaching Skills, Learning Styles, Quality in Teaching and Learning, Teaching and Learning by Objectives, Bloom's Taxonomy, Classroom Management, Active Teaching and Learning, Academic Program (Course Report, Course Specifications), Standards in Education
2. *National Authority for Quality Assurance and Accreditation of Education, Egypt*
 - a. Supporting Documents for Higher Education Institute, 2010
 - b. Strategic Planning for Higher Education Institute, 2010
 - c. External Auditing for Higher Education Institutes, 2011

EXPERIENCE

CANADIAN INTERNATIONAL COLLEGE (CIC)– Cairo, Egypt

9/2006-Present

Associate Campus of Cape Breton University and University of Ottawa - Canada

School of Engineering

Civil Engineering Department

Assistant Professor

- Teaches courses in environmental, civil and manufacturing engineering. Devised new techniques for teaching effectively. Identified and addressed student difficulties within the classroom regarding course work.
 - Courses Taught
 - Environmental Projects
 - Environmental Control
 - Project Management
 - Fluid Mechanics
 - Hydraulics
 - Water Quality Management

- Materials Properties and Testing I and II

- Introduction to Environmental Engineering

Head of Department

- Designed and implemented the new civil engineering program in the Canadian International College, which is approved by the ministry of higher education in Egypt.

Quality Assurance Coordinator

- Coordinating new programs to be implemented in CIC and other private and public universities. Delegated by the CIC as quality assurance coordinator at the CIC. Involving in several academic and administrative committees at CIC, including the Executive committee of the Engineering department, the Quality Assurance committee which oversees all QA activities at CIC, also on the Faculty Retention and Recruitment subcommittee and co-authoring the first-ever CIC Policies and Procedures manual.

CIC Registrar

Responsible for providing strategic and leadership direction in an organization. performs activities such as admissions, examination schedules, curriculum review, registration, etc. provides essential services to the college. plans, directs and implements all the activities related to the registrar's office. plays a key role in an organization and serves all the needs of students as well as organization. The duties of registrar are classified into following categories they are: Academic recordkeeping, Room scheduling, Statistics reporting.

Academic Supervisor Student Affairs Department

- Awareness with all functions related to the students and activities throughout their academic life in CIC. Supervising and follow up the implementation of the selected plans in all various fields. Creating coordination and cooperation among different units for achieving the aspired goals. Preparing of report stating the achievements and observations of work as well as submitting views of development means of work to the President to take the necessary decisions. Explaining rules and instructions issued by Ministries. Overseeing and solving any complaints either from students or parents.

Founder-Recycling Program

DALHOUSIE UNIVERSITY – Halifax, NS

9/2001 – 6/2006

Department of Biological Engineering

Research Engineer/Teaching Assistant/ Laboratory Instructor

- Setup laboratory experiments and assisted students through course requirements. Organized schedules, marked student lab reports, and conducted student orientation. Devised new techniques for teaching effectively. Identified and addressed student difficulties within the classroom regarding course work. Tutored various courses including Biogeochemistry and Bioremediation, Waste Disposal and Utilization, Waste Management; currently serve as Tutor for undergraduate students in Biological Engineering Department.
- **Conducted phytoremediation research on contaminated soil and water. Performed physical and chemical analyses.** Collected, analyzed and presented data. Prepared and help in preparing several research papers for publications.

BURNSIDE INDUSTRIAL PARK, HALIFAX, NS

6/2002 – 11/2005

Wetland Treatment System Project

Project Management

- **Supervising the construction and Designing the new extension of the Burnside Wetland Treatment System Project.** Conducted heavy metal filtration research on contaminated water. Performed physical and chemical analyses. Sampled water, soil and plant samples from the Wetland project.
- **Participated in preparing several proposals and final reports for the wetland project (resulting about \$300,000 funding for the project).**

HIGHER TECHNOLOGICAL INSTITUTE – Cairo, Egypt

9/2000 – 8/2001

Civil and Environmental Engineering Department

Research Engineer and Teaching Assistant

Setup laboratory experiments and assisted students through course requirements. Organized schedules, marked student lab reports, and conducted student orientation. Devised new techniques for teaching effectively. Identified and addressed student difficulties within the classroom regarding course work. Tutored various courses including Engineering Drawing, Surveying, Concrete Design I, II & III, Fluid Mechanics, Steel Design and Environmental Engineering I, & II.

PROFESSIONAL AFFILIATIONS

CSBE, Canadian Society of Biological Engineering
ESE, Egyptian Syndicate For Engineers
EWB-Egypt, Engineers Without Borders-Egypt (Vice President and Co-Founder)

PUBLICATIONS

Conference Papers

1. Kamal, M. and A. E. Ghaly. 2002. Effectiveness of Phytoremediation for treatment and recycling of aquaculture wastewater, Proceedings of ASAE/CIGR International Conference, Chicago, Illinois. Paper # 026138.
2. Ghaly, A.E. and M. A. Kamal. 2003. Removal of contaminants from wastewater by aquatic plants. Paper presented at the ASAE International Meeting, Las Vegas, Nevada, Paper # 036223.
3. Kamal, M. and A. E. Ghaly. 2004. An effective hydroculture system for treatment and recycling of aquaculture wastewater. Paper presented at the Atlantic Agricultural Science and Technology Workshop, Bible Hill, Nova Scotia.
4. Kamal, M., A. E. Ghaly and R. Cote. 2004. Treatment of landfill and industrial park contaminants in a constructed wetland. Paper presented at the Environmental Research Symposium, Halifax, Nova Scotia.
5. Ghaly, A. E. and M. A. Kamal. 2004. Continuous Ethanol Production from Concentrated Cheese Whey Lactose with Microaeration and Nutrient Supplement. 2nd World Conference and Technology Exhibition on Biomass for Energy, Industry and Climate Protection.
6. Kamal, M and A. E. Ghaly. 2005. Iron Uptake by Facultative and Obligate Wetland Plants. Proceeding of the Second International Exergy, Energy and Environment Symposium, Kos, Greece. Paper No. IEEEES2-053
7. Kamal, M. A. and A. E. Ghaly. 2005. Uptake of Heavy Metals by Obligate Wetland Plants. Proceedings of the Eight International In-situ and On-site Bioremediation Symposium, Baltimore, Maryland. Paper No. 575
8. Kamal, M., A. E. Ghaly and R. Cote. 2005. Iron uptake by wetland plants. Paper presented at the Second Environmental Research Symposium, Halifax, Nova Scotia.
9. Snow, A., A. E. Ghaly, R. Cote and M. Kamal. 2005. An innovative approach to managing contaminants from closed landfills and industrial parks. Paper presented at the Second Environmental Research Symposium, Halifax, Nova Scotia.
10. Ghaly, A. E., R. Cote and M. Kamal. 2005. Burnside environmental park and wetland system. 2005. Paper presented at the Second Environmental Research Symposium, Halifax, Nova Scotia.

Journal Papers

1. Ghaly, A.E. and M. Kamal. 2002. Submerged Yeast fermentation of Acid Cheese Whey for Protein Production and Pollution Potential Reduction. Water Research Journal, 38:631-644.
2. Ghaly, A.E., M. Kamal and A. Avery. 2002. Batch propagation of *Kluyveromyces fragilis* in Cheese Whey under ambient condition. Applied Microbiology and Biotechnology, 19(5): 741-749.
3. Kamal, M., A. E. Ghaly, N. Mahmoud and R. Cote. 2004. Phytoremediation of heavy metals using aquatic plants. Environment International, 29:1029-1039.
4. Ghaly, A. E., M. Kamal, and N. S. Mahmoud. 2005. Phytoremediation of aquaculture wastewater for water recycling and production of fish feed. Environment International 31: 1-13.
5. Ghaly, A. E., M. Kamal and L. R. Correia. 2005. Kinetic Modeling of Continuous Submerged Fermentation of Cheese Whey for Single Cell Protein Production. Bioprocess Technology 96(4): 1143-1152.
6. Kamal, M., A. E. Ghaly and R. Cote. 2007. Effect of temperature on the performance of limestone/sandstone filters. American Journal of Environmental Science 3(1):11-18

7. Ghaly A. E., M. A. Kamal, N. S. Mahmoud and R. Cote . 2007. Treatment of Landfill Leachate using Limestone/Sandstone Filters Under Aerobic Batch Conditions. American Journal of Environmental Sciences 3(2): 43-53
8. Ghaly, A. E., M. Kamal, N. S. Mahmoud, R. Cote. 2007. Treatment of landfill leachate using limestone/sandstone filters under aerobic batch conditions. American Journal of Environmental Science. 4(2): 43-52
9. Ghaly A. E., A. Snow and M. Kamal. 2008. Manganese Uptake By Facultative and Obligate Wetland Plants Under Laboratory Conditions. American Journal of Applied Sciences 5(4): 392-404
10. Ghaly A.E.; A. Snow ; M. Kamal. 2008. Kinetics of Manganese Uptake by Wetland Plants. American Journal of Applied Sciences 5(10): 1415-1423
11. Ghaly A.E.; A. Snow ; M. Kamal. 2008. Kinetics of Iron Uptake by Wetland Plants. American Journal of Biochemistry and Biotechnology 4(3): 279-287
12. A.E. Ghaly, A. Snow, M. Kamal, S.H. Monfared. 2008. Iron uptake and translocation by facultative and obligate wetland plants. American Journal of Environmental Sciences.