

Iyad M. Dkeidek
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EDUCATION

- Weizmann Institute of Science, Rehovot 76100, Israel*
Ph.D. in Science Education – Chemistry Learning **2011**
Dissertation: "Inquiring about Inquiry-oriented Laboratory in Chemistry in Arab High Schools in Israel – A Comparative Study"
- The Hebrew University in Jerusalem, Jerusalem, Israel*
M.A. in Pharmaceutical Chemistry **2000**
Thesis: "Penetration Enhancing of Large Molecules into and Through the Skin"
- Yarmouk University, Irbid, Jordan*
B.Sc. Honors in Chemistry **1995**
Areas of Concentration: Chemistry Science
Honors Thesis: "Influence of Acidity on Transition Metals"
- The Hebrew University of Jerusalem, Jerusalem, Israel*
Teaching Certificate for teaching high-school chemistry **2002**

AWARDS

- Doctoral Fellowship. Weizmann Institute of Science **2004 – 2010**
- Student's Fellowship, The Hebrew University of Jerusalem **1997 – 1999**
- Excellence Grant, Yarmouk University **1994**

WORKING EXPERIENCES

- Al-Qasimi Academic College for Education, Department of Science Education, Baqa-El-Gharbia, 3010000, P.O.Box 124, Israel.* **2013 – Present**
Researcher, Lecturer, and Pre-service elementary science teachers' College-Advisor in:
M.A. in Department of Teaching and Learning – Science Education tract
B.Ed. Department of Science Education for elementary Schools
- Al-Quds University, Faculty of Educational Sciences, Abo Dees, The University Main Street, Palestine.* **2010 – Present**
Researcher and Lecturer in:
B.Ed. in Early Childhood Education (ECE) Department
- Teachers' Professional Development Center in East Jerusalem, Latin Street 12, Old City, Jerusalem* **2010 - 2023**
Professional development advisor for 1st-12th grade in-service science teachers
- Interactive Science Museum, Al-Quds University, Palestine* **2004 - 2009**
Coordinator for Talented Students program
This program was dedicated for high-achiever's students in order to develop their High order thinking abilities by participating in extra-curricular science activities

Teacher's Professional Development Center in East Jerusalem, Latin Street 12, Old City, East Jerusalem

Science Teachers' Advisor for grades 1st-10th

Development of teaching aids, Advising High School Chemistry Teachers, conducting conferences and workshops.

2000 – 2010

Al-Essawyah High School, Al-Essawyahh schools' street, East Jerusalem

Science and Chemistry Teacher – "Middle School."

Developed syllabus and overall course structure and administered all grades.

1996 – 2010

The Hebrew University of Jerusalem, Jerusalem, Israel

Teaching Assistant – at the "Physical pharmacology" laboratory

Collaborated on curriculum and exam development, met with students upon request, and graded all written work, including final exam papers.

1997 – 1999

Birzeit University, Ramallah – Birzeit, Main Street, Palestine

Laboratory Technician and Teaching Assistance at the undergraduate Chemistry labs.

Collaborated on curriculum and exam development, met with students upon request, and graded all written work, including final exam papers.

1995 – 1996

RELATED EXPERIENCE

The Hebrew University in Jerusalem, Jerusalem, Israel

Researcher in pharmaceutical chemistry

Working with HPLC, *in-vivo*, and *in-vitro* research methods.

1997 – 2000

Weizmann Institute of Science – Young at Science Center, Rehovot 76100, Israel

Language Consultant, and student's guider

Adaptation and translation of Hebrew worksheets for school science to Arabic.

2007 – 2009

PUBLICATIONS

- **Dkeidek, I.** (submitted). Interactive teacher training course as a platform for encouraging elementary preservice science teachers to engage in NGSS-oriented science teaching practices. *Journal of Science Teacher Education*.
 - **Dkeidek, I.** (submitted). Targeted professional development programme for professionalisation of non-professionalised in-service elementary science teachers in Palestine. *Professional development in Education*.
 - **Dkeidek, I.,** Issa, N. (2021). Instructional practices of science teachers from the Arab community in Israel. *SN Soc Sci* 1, 236. <https://doi.org/10.1007/s43545-021-00246-y>
 - Hofstein, A., **Dkeidek, I.,** Katchevitch, D, Levy Nahum, T., Kipnis, M., Navon, O., Shore, R., Taitelbaum, D., & Mamlok-Naaman, R. (2019). Research on and development of inquiry-type chemistry laboratories in Israel. *Isr. J. Chem.,* 58, 1–11. <http://doi.org/10.1002/ijch.201800056>
 - Markic, S., Eilks, I., Mamlok-Naaman, R., Hugerat, M., Kortam, N., **Dkeidek, I.,** & Hofstein, A. (2016). One Country, Two Cultures – A Multi-perspective View on Israeli Chemistry Teachers' Beliefs about Teaching and Learning. *Teachers and Teaching: Theory and Practice,* 22(2), 131-147. <http://doi.org/10.1080/13540602.2015.1055423>
 - Hugerat, M., & **Dkeidek, I.** (2014). The cognitive acceleration curriculum as a tool for overcoming difficulties in the implementation of inquiry skills in science education among primary school students. *Journal of Baltic Science Education,* 13, 523–534.
 - **Dkeidek, I.,** Mamlok-Naaman, R., & Hofstein, A. (2012). Assessment of the laboratory learning environment in an inquiry-oriented chemistry laboratory in Arab and Jewish high-schools in Israel. *Learning Environment Research – An International Journal,* 15, 141-169. <http://doi.org/10.1007/s10984-012-9109-3>
 - **Dkeidek, I.,** Mamlok-Naaman, R., & Hofstein, A. (2011). Effect of culture on high-school students' question-asking ability resulting from an inquiry-oriented chemistry laboratory. *International Journal of Science and Mathematics Education,* 9, 1305-1331. <http://doi.org/10.1007/s10763-010-9261-0>
 - **Dkeidek, I.** (2003). The Elements Drawing. *Journal of Chemical Education,* 80, 501-502. <http://doi.org/10.1021/ed080p501>
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GRANTS

- **Dkeidek, I.** (2016). *Effect of the Practicum Course on Pre-Service Elementary Science Teachers' Beliefs about teaching and Attitudes toward Teaching Sciences*. Tel-Aviv: MOFET.
- Essa, N. & **Dkeidek, I.** (Submitted, 2019). *Measuring Instructional Practices in Elementary and Middle-School Science Education among Arab and Jewish Science Teachers*. Tel-Aviv: MOFET.

CONFERENCES PAPERS

- **Dkeidek, I.**, Easa, N. (2021, April). Characteristics of Science Instructional Practices used by Arab Science Teachers in Israel. Paper presented at A Worldwide Organization for Improving Science Teaching and Learning Through Research (NARST), A Virtual Conference.
- **Dkeidek, I.** (2019, August). Effect of Interactive Practicum Course on Science Teaching Practices of Pre-Service Science Teachers. Paper presented at the European Science Education Research Association (ESERA), Bologna, Italy.
- **Dkeidek, I.** (2019, June). Measuring Elementary Pre-service Science Instructional Practice within the Practicum course: A Thematic Analysis of Teachers Teaching Practices. Paper to be present at the 7th International Conference on Teacher Education: The Story of Innovation in Teacher Education, Tel Aviv, Israel.
- **Dkeidek, I.** (2018, March). Effect of the Practicum Course on pre-Service Science Teachers' Beliefs and Attitudes toward Teaching Sciences. Paper presented at A Worldwide Organization for Improving Science Teaching and Learning Through Research (NARST), Atlanta, Georgia.
- **Dkeidek, I.**, & Qubaja, Z., Adas, M. (2017, April). Effect of Professional Development Course on Palestinian Primary In-Service Science Teachers' Attitude toward Teaching Sciences. Paper presented at National Association for Research in Science Teaching (NARST), San Antonio, Texas.
- **Dkeidek, I.** (2015, November). Professional development program for professionalization of Palestinian elementary science teachers. Paper presented Frontiers of Science: Research and Education in the Middle East conference, Rabat, Morocco.
- **Dkeidek, I.**, Adas, M., & Qubaja, Z. (2015, August). Effect of Unique Professional Development Course on Palestinian Primary In-Service Science Teachers' Attitude toward Teaching Sciences. Paper presented at the European Science Education Research Association (ESERA), Helsinki, Finland.
- **Dkeidek, I.**, & Qubaja, Z. (2014, March). Learning and Motivation: Professional Development Program for Palestinian In-Service Elementary Science Teachers. Paper presented at National Association for Research in Science Teaching (NARST), Pittsburg, Pennsylvania.
- **Dkeidek, I.** (2013, November). Effect of culture on students' developing high order cognitive skills and laboratory classroom learning environment in chemistry learning. Paper presented Frontiers of Science: Research and Education in the Middle East conference, Valletta, Malta.
- **Dkeidek, I.**, Mamlok-Naaman, R., & Hofstein, A. (2011, April). Effect of culture on students' questioning ability resulting from inquiry-oriented chemistry laboratory. Paper presented to National Association for Research in Science Teaching (NARST), Orlando, Florida.
- **Dkeidek, I.**, Mamlok-Naaman, R., & Hofstein, A. (2010, July). Analysis of verbal interactions during inquiry-oriented chemistry laboratory. Paper presented at the European Conference on Research in Chemical Education (ECRICE), Krakow, Poland.
- **Dkeidek, I.**, Mamlok-Naaman, R., & Hofstein, A. (2009, August). Inquiring about the inquiry chemistry laboratory in Arab high Schools in Israel – A comparative Study. Paper presented at the Biannual Meeting of European Science Education Research Association (ESERA), Istanbul, Turkey.

MEMBERSHIPS

- European Science Education Research Association (ESERA) – The Netherlands
- National Association of Research in Science Teaching (NARST) – USA
- Israeli Chemical Society – Israel

LANGUAGES

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- Arabic – native language
 - English – speak, read, and write with high proficiency.
 - Hebrew – speak, read, and write fluently.
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