

# HIT - HOLON INSTITUTE OF TECHNOLOGY

Date: 31 August 2020

**Name** AMOS NOTEA Ph.D. 6407654  
(first) (last) (acad. degree) No. id. Card

**Faculty** Technology Management **Department** \_\_\_\_\_

**Home Address** 34 Palmach, Romama, Haifa 34558 **Phone No.** 04-8244897 04-8294390  
(home) (work) (mobile)

**Date/place of birth** 25/4/1938 Israel **Date of arrival in Israel** -  
(date) (country)

**ZAHAL, (Israeli) Military Service** 1956 - 1965  
dates (enlisted) (discharged)

**Marital Status** Married **No. of children** three

Email: amoso@hit.ac.il

## A. EDUCATION

Period of Study (dates)	Name of University (including city and country if not in Israel)	Subject	Degree or Professional Licence	Date of Award
1961	Department of Physics, Technion		B.Sc.	
1961	Technion		Qualified Teaching Certificate	
1965	Department of Nuclear Engineering, Technion		M.Sc.	
1969	Faculty of Natural Sciences, Hebrew University		Ph.D.	

**Title of Master's Thesis:** Evaluation of fast neutron spectroscopy by time of flight technique

**Name of Supervisors:** Prof. Naftaly Shafrir

**Title of Doctoral Dissertation:** Delayed neutron yields in fission reactions

**Names of Supervisors:** Prof. Saadia Amiel

## B. FURTHER STUDIES

Period of Study (dates)	Name of University (including city and country if not in Israel)	Subject	Degree or Professional Licence	Date of Award

NONE

**C. ACADEMIC AND PROFESSIONAL EXPERIENCE**

Period (dates)	Name of Institution (city, country)	Department	Rank/Function
1961-1968	Soreq Nuclear Research Center, Israel Atomic Energy Commission	Nuclear Chemistry Radiation Safety	Research Scientist
1969-1972	Technion, Haifa, Israel		Lecturer
1969-1979	Technion, Haifa, Israel	Nuclear Engineering	Responsible for Nuclear Engineering Curriculum and Students' Laboratories
1972-1977	Technion, Haifa, Israel		Senior Lecturer <b>with tenure</b>
1973	IAEC – International Atomic Energy Commission	Radiation Engineering	Field Initiator; Project Leader
1974-1975	EURATOM of the European Commission	Safeguard of Fissionable Material	Research Scientist
1976	Technion, Haifa, Israel		Associate Professor
1/1979-12/1982	Technion, Haifa, Israel	Nuclear Engineering	Dean
1983	Pennsylvania State University, Pennsylvania, USA	Reactor Engineering	Visiting Professor; M.Sc. Supervisor
1984-1998	<ul style="list-style-type: none"> <li>• Israel Military Industries</li> <li>• Israel Aviation Industry</li> <li>• Ministry of Industry and Commerce</li> <li>• Israel National Physics Laboratory</li> </ul>	Nondestructive Evaluation (NDE)	Project Scientist
1985-1988	Weizmann Institute of Science, Rehovot, Israel		Research Scientist
From 3/1997	Technion, Haifa, Israel	Industrial Engineering and Management	Staff Member
1985-2006	Technion, Haifa, Israel	Quality Assurance and Reliability Unit	Professor
From 2/2001	Technion, Haifa, Israel	Agricultural Engineering	Senior Staff Member
	Universities and research centers in USA, Denmark, Germany, EURATOM, Australia, New Zealand		Visiting Professor
2004-2016	Kinneret College and Academic Kinneret, Israel	Quality Engineering	Professor; Development of B.Sc. program in quality engineering
10/2006-			Professor Emeritus
<b>2007-present</b>	<b>HIT – Holon Institute of Technology, Holon, Israel</b>	<b>Technology Management: Quality, Safety and Reliability Engineering</b>	<b>Full Professor</b>

**Teaching Experience:**

- Radioisotope Training School of Israel Atomic Energy Commission and Weizmann Institute, courses in Nuclear Radiation and Measurements, Radiation Safety (1962-1965)
- Measurements of Nuclear Radiation; Nuclear Engineering and Applied Nucleonics (1968-1985)
- Research advisor to graduate students M.Sc. and D.Sc. (from 1968-present).
- EURATOM international annual courses in Assay Systems for Safeguarding Special Nuclear Materials, Ispra European Commission, Italy (1975-1976)
- **Developer and founder of an innovative graduate program for quality assurance and reliability combining engineer and managerial aspects (1983-present). The only program in Israel with 13,590 graduates: M.Sc. and Ph.D. graduates.** Expert with a wide perspective and understanding of Quality and Reliability engineering and managerial aspects (1983-2006). **Developed a similar program at Hanover Technical University, Germany**
- Courses in: Measurement Theory; Quality Systems Management Models and Global Markets; National and International Standard; Accreditation/Certification Schemes; Management of Integrated Systems: Quality, Environment, Safety and Health, Security; Nondestructive Evaluation NDE Methods (1985-present)

**Teaching Experience, contd.**

- Technion: Courses in Measurement Sciences, Quality Systems Management, Quality and Safety Standardization and Regulation Systems (1985-2006)
- University of Haifa: Quality, Safety, Disasters Management (2011-2012)
- Technion: Professional courses via The Continuous Education Department and Youth Activities and Technology (1968-2006)
- Courses to industrial staff, laboratories, medical and clinical organizations on compliance with international management standards

**D. PROFESSIONAL AND PUBLIC ACTIVITIES**

<b>Period (dates)</b>	<b>Name of Institution/Conference/ Journal/Exhibitions/Projects (city, country)</b>	<b>Occasion</b>
1978-1982	Technion, Haifa, Israel	Dean - Nuclear Engineering Dept.
1985-1997/1999-2006	Technion, Haifa, Israel	Chairman of the Interdisciplinary Committee for Graduate Studies, Dept. Quality Assurance and Reliability (developed by Notea)
1993-1998		Scientific project leader for the development of Israel National Accreditation Scheme (nominated by Minister of Industry and Trade)
1994	Technion, Haifa, Israel	Founder and Head of Center for Research in Quality and Reliability
1994-1997	Technion, Haifa, Israel	Member of Nomination Committee, Dept. Agricultural Engineering

**D. PROFESSIONAL AND PUBLIC ACTIVITIES, contd.**

Period (dates)	Name of Institution/Conference/ Journal/Exhibitions/Projects (city, country)	Occasion
1999	Technion, Haifa, Israel	Member of the Nomination Committee, Dept. Industrial Engineering and Management
2000-2001	Technion, Haifa, Israel	Member of Auditing Committee, Technion Graduates School
3/2001-2005	Technion, Haifa, Israel	Chairman of the Undergraduate Program, Dept. Quality Assurance in Bioprocessing Engineering
2001-2006	Technion, Haifa, Israel	Holder of Harry Lebensfeld Chair in Industrial Engineering
1/1/2007-2013	Technion, Haifa, Israel	Head of Radiation Safety Unit
2008-2016	Kinneret College and Academic Kinneret, Israel	Head of Quality and Reliability Engineering
2006 -present	HIT	Head of M.Sc. Program in Quality , Safety & Reliability

**Committees and Commissions:**

8-9/1973	Initiator and organizer of an <b>IAEA International Study Group Meeting</b> on "Radiation Engineering in the Academic Curriculum". <i>The first and only one in Israel</i>
1980-1984	Chairman of the Committee for Evaluation of professional personnel required for the building of nuclear power stations in Israel (nominated by the Minister of Energy)
1981-1982	Chairman of the Sub-Committee on Manpower Development for the Nuclear Power Program in Israel (nominated by the Ministry of Energy)
1982-1987	Member of the Committee for Technical Assistance and Grants (nominated by the Israel Atomic Energy Commission)
1986	Chairman of "3rd Umbrella-Symposium : RWTH Aachen-KFA Julich-Technion"
1986-1993	Israel's voting delegate to the International Committee on Non-Destructive Testing (ICNDT)
1987-1992	Chairman of "Denmark-Israel Joint Prospects in NDT"
1987-1993	Chairman of Non-Destructive Testing Chapter, The Israel Metallurgical Society
1988-1993	Representative of the Institutes of High Learning at the Public Council of Israel Laboratory of Physics
1991-1993	Member of Israel National Quality Council (nominated by the Minister of Industry and Commerce)
1991-1995	Member of the Consulting Committee to the Israel Laboratory of Physics
1992-1993	Chairman of Guide Committee for Good Manufacturing Practice for the Pharmaceutical Industry (Ministry of Health)
1996-1997	Chairman of a Consulting Committee on Israel's Primary Standards to the Minister of Industry and Trade
1997	Chairman of National Accreditation Body Committee, Minister of Industry and Trade
1997	Establishing the Israel National NDT Society – <b>President from 2002</b>

**D. PROFESSIONAL AND PUBLIC ACTIVITIES, contd.****Committees and Commissions:**

1998	Member of the High Committee of Yitzhak Rabin's National Quality Award for Public Sector (nominated by the Prime Minister)
1998	Committee Chairman to advise the Government on the need of a National Accreditation Body
5/2000-05	Expert Member at a Committee to develop the infrastructure for Legal Metrology Law in Israel
2002-2007	President of the Israel National Nondestructive Testing Society ISRANDT
2005-	Chairman of <b>AFRAN</b> - National Center for Disaster Reduction Large Scale Sudden Disaster – LSSD
2016-2019	Representative of the High Education Council to the Israel Standards Institute, Committee 7800 on Quality Management

**Editorial responsibilities:**

1974-1993	Advisory Editor of the NDT International Journal (Nondestructive Testing and Practice) published by Butterworths, England
1987-1989	Member of the Editorial Advisory Committee for the Monograph Series in NDT, International Advances in Nondestructive Testing, Gordon & Breach, Science Pub., Inc.
2000-	Journal of the Israel National Non-Destructive Society

**Certification:**

1991	Laboratory Accreditation Assessor and Tutor for Assessors, certification by Western European Laboratory Accreditation Cooperation, <b>WELAC</b> , Europe
1991	Lead Assessor of Quality Assurance Management Systems, certification by the British Standards Institute ( <b>BSI</b> )
1996	Registrar approved <b>WELAC GLP</b> Lead Auditor
1999	OECD Inspector of Study Audit
2000	Nondestructive expert level 3 in UT, MT, RT, VT, NRT (Certification No.053C/001)

**Activities – Workshops, Seminars, Consultations, Reviewer:**

1969-1976	Scientific workshops for high-school gifted students
1972-1982	Summer courses and seminars to professional societies and industry on the implementation of nuclear power stations
1978-1983	Consultation to Israeli Government on nuclear power
1987-1988	Development of Academic Engineering Program for Ashdod College of Engineering, and presentation to the High Education Council
From 1988	Consultation and supervision to industrial organizations on implementation of quality management systems and monitoring systems
19.1.1988	Study Day to ABC Officers on Senario : Disaster due to attack on the Ammonia tank at Haifa Bay
1993-1998	Established <b>ISRAC</b> – The Israeli Accreditation Authority Consultation to the Ministry of Industry and Trade on accreditation of testing and calibration laboratories
1995	Established <b>ISRANDT</b> – The Israeli Society for Nondestructive Testing and <b>ISRACERT</b> – The Israeli Certification Body for Qualification of NDT Worker in Israel; The Israeli Society for ART Conservation
1997-1998	Development of Academic Engineering Program for Israel NYIT
1998-	Consultation to the Ministry of Industry and Trade on Metrology
2000	Member of the Academia NDT International

**D. PROFESSIONAL AND PUBLIC ACTIVITIES, contd.****Activities – Workshops, Seminars, Consultations, Reviewer:**

2003-	Development of Academic Engineering Program for quality and reliability engineering for Kinneret College
2004-2005	Development of Academic Engineering Program for industrial management services for Natanya College
2005-2006	Development of Proposed Law on Legal Metrology for the Government of Israel
2008-present	Lectures at the Jewish Cultural College, Haifa on Science and Community
2008-2019	Chairman of the Annual International Conference on Techniques, Measurements & Materials in Art & Archaeology
2009	Nominated referee for evaluation of Joint Research Projects (JRP) Proposals and Research Excellent Grant (REG) Applications – <b>EUROMET</b>
2016	Reviewer of the International Journal for Quality in Healthcare

**E. ACADEMIC AND PROFESSIONAL AWARDS  
(prizes, fellowships, scholarships, etc.)**

Year	Name of Institution (city, country)	Occasion
9/1989	British Institute of Nondestructive Testing, UK	Fellow, IEng. FInstNDT – The 8th Fellow outside the UK
1999	Israel National Nondestructive Society	Honorary Fellow
2000	Israel President's Award	Diploma of Appreciation granted by the President of Israel, Mr. Ezer Weizman for Prof. Notea's contributions to the development and implementation of academic quality program, 14/5/2000
29/10/2013	The Israel Society for Quality (ISQ)	Appreciation and Recognition for Lifetime Achievement in Quality

**E1. RESEARCH GRANTS**

Year	Name of Institution (city, country)	Occasion/Amount
1969-2006	Israel Government departments and companies, and industry	20-300k\$/y for each project (35 years)
1969-1981	International Atomic Energy Agency, Vienna	Israel Atomic Energy Commission: 250k\$
1975-1982	Niedarsachsisches Ministerium für Wissenschaft und Kunst (Ministry of Science & Culture of Lower Saxony, Hanover, Germany) with the University of Hanover, KFA, Julich – Nuclear Research Center	Industry: 150k\$ Hanover: 250k\$
1983-1986	EEC – European Economic Community with DTU – Technical University of Denmark	First EU research program: 200k\$

**E1. RESEARCH GRANTS, contd.**

Year	Name of Institution (city, country)	Occasion/Amount
1992	Wolfson Fund	Microfocus radiography: 250k\$
1993-1998	Infrastructure accreditation/certification in Israel	MOD: 550k\$
1998-1999	Pennsylvania State University, Pennsylvania, USA	Marcus Fund – Calibration of robots control: 20k\$
1998-1999	Infrastructure for a Legal Metrology Law in Israel	Development: 75K\$
2001-2003	Hankel Ltd., Germany	Ultrasonic high-resolution: 110kEuro

**F. MEMBERSHIP IN PROFESSIONAL SOCIETIES**

Year	Society (country)
From 1970	American Society for Nondestructive Testing
1977-1984	Israel Nuclear Society
1982	Initiator – <b>ISRANDT</b> - Israel Nondestructive Testing, Division of Israel Metallurgical Society; <i>Chairman 1986-1994</i>
1985	Honorary Member – Bulgarian NDT Society – <b>BGNDDT</b>
1986-1989	International Radiation Physics Society
1987-1996	Israel Society for Quality Assurance
From 1988	American Quality Society
1989-1995	British Institute of Nondestructive Testing
From 1998	Israel National Society of Nondestructive Testing
2/1993	The American Society for Quality Control – Senior Member

**G. STUDENTS SUPERVISED BY CANDIDATE**

***HIT – Holon Institute of Technology does not currently have an accreditation for granting research theses (M.Sc.) or Dissertation (Ph.D.) degrees***

**G1. DOCTORAL STUDENTS (D.Sc.)**

<b>Year</b>	<b>Name of Student</b>	<b>Title of Thesis</b>	<b>Name of Academic Institution</b>
1971	Jerry M. Cuttler*	Measurement of the energy spectra of delayed fission neutrons	
1974	Ezra Elias*	Multi-energy response of gamma for multicomponent cylindrical medium	
1979	Yaacov Laichter*	The deposition efficiency of fission fragments in matter	
1980	Alexander Knoll	Passive gamma assay of nuclear fuel materials	
1981	Abraham Fishman	Modelling the contribution of scattered radiation in radiography on the image characteristic quality functions	
1983	David Segal	Identification and quantitative analysis of materials by x-ray fluorescence	
1989	Debora Pal	Spatial distribution of material density by radiography	
1989	Yoseph Bushlin	Quantitative characterization of flaws by digital radiography	
1995	Igor Frumkin	Advanced digital x-ray imaging detector for radiography and other applications	
1996	Danny Elad*	Signal space and its application to oscillator design	
1998	Ariel Altar	Geometrically magnified 3D tomography	
1999	Ze'ev Schmilovitch	Composition analysis of agricultural fluid product by near infra-red spectroscopy	
2002	Tatiana Shwierz-Yosefzon	Tomography of a product from a projection: Influence of deviations from ideal symmetry	
2007	Riki Riechstein	Physical model for products quality through severity and interactions of defects	
2008	Shira Cohen	PSF for radiographic image processing determination by Fuzzy Logic	

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\*Supervision with an additional staff member [from the Technion](#)



**G1. DOCTORAL STUDENTS (D.Sc.), contd.**

Year	Name of Student	Title of Thesis	Name of Academic Institution
2009	Iris Dallal*	Quality system of a system of systems	With Gad Rabinovitz, Ben Gurion University of the Negev, Dept. Industrial Management
2009	Erez Manor	Engineering fuzziness in quality and reliability	
2012	Aviva Bashan	Quality management in global organizations: A model for functional global integration on the network basis of the quality system	University of Haifa, Dept. of Statistics

**G2. M.A./M.Sc. STUDENTS (please indicate if degree is with "thesis" or "final project")**

Year	Name of Student	Title of Thesis/Final Project	Name of Academic Institution
1972	Sergio Faerman	Long half-life photon standards in the range below 100 keV	
1973	Yaakov Laichter*	Low level gamma spectrometry for the detection of the passive of radio-nuclides in the marine environment	
1973	Odette Herscovici	Quantitative analysis by x-ray fluorescence	
1974	Lucyan Wielopolski	Location of labeled internal organs by analysis of photons spectrum emitted from the body	
1974	Mark Newman*	Adsorption of various lead salts (measurement by low energy photons)	
1975	Philip L. Hopstone	Optimization of the working conditions of <sup>3</sup> He neutron spectrometer	
1976	Boris Shapiro	Characterization of nuclear gauges by radiation chord length distribution	
1977	Abraham Ginzburg	Probabilistic evaluation of radiation transmission gauge for detection of inhomogeneity medium	
1978	Abraham Fishman	Evaluation of gamma transmission gauge for assay of water content in soil	
1979	Michael Winokur*	The problem of load following in the last part of the fuel cycle in a PWR reactor	Technion – Israel Institute of Technology

\*Supervision with an additional staff member

**G2. M.A./M.Sc. STUDENTS** (please indicate if degree is with "thesis" or "final project"), contd.

Year	Name of Student	Title of Thesis/Final Project	Name of Academic Institution
1979	Avner Bar-Ilan	Modeling of nuclear fuel waste drum assay by gamma technique, taking the scattering into account	
1981	Sergio Wejnberg	Construction of flush x-ray system and radiographs interpretation	
1982	Gabriel Leiferman	System for actinides assay by time analysis in passive neutron method	
1985	Debora Pal	Limitations of the fluorescence screen in real time radiography	
1988	Shalom Mirsky	Test program for qualification of miniature transformer	
1988	Avinoam Porat	Analytic applications in scanning electron microscopy	
1988	Israel Weinstock	Testability built-in test engineering design guide for electronic equipment	
1989	Ben-Ami Amir	The quality gain by thermal and random vibration screening	
1989	Leon Ashkenazy	Quality improvement of the wave soldering process	
1989	Moshe Halamish	Environmental evaluation tests of power amplifier	
1989	Mordechay Shapira	Cost optimization of quality testing on printed wiring assembly processes	
1990	Amit Shtekel	Development of optomechanical method for nondestructive evaluation (NDE)	
1990	Yigal Aharoni	Reliability proof for electronic system (according to MIL-STD-781C)	
1990	Yonathan Reznik	Industrial radiography	
1990	Samson Ben-Zvi	Nondestructive eddy current tests and applications	
1991	Avidor Shlamovitz	Film-based industrial tomography	
1991	Benjamin Yoskovich	Measurement of x-ray build-up factor of radiation in propellant	
1991	Joseph Baratz	Measurement of BUF (build-up factor) with Cobalt-60 radiation in propellants	

**G2. M.A./M.Sc. STUDENTS** (please indicate if degree is with "thesis" or "final project"), contd.

Year	Name of Student	Title of Thesis/Final M.Sc. Project	Name of Academic Institution
1992	Hadas Niv	Statistical characteristics of texture detected in radiographic examinations	
1992	Gad Ben-David	Computerized simulation of film based tomography FBT	
1992	Nathan Morag	Detection of separations in rocket motors by tangential radiography	
1993	Ronen Shtekekl*	Evaluation of measurement methods for radiography resolving power	
1993	Rafi Bibas	LSF Measurements of Ultrasonic System	
1994	Ariel Altar	Fruit quantitative characteristics quality indices by radiographic methods	
1994	Joseph Shoef	Uncertainty in radiography	
1994	Smadar Stossel	Implementation of total quality assurance in citrus fruit export according to TQM principles	
1994	Abraham Tvito	Detection of internal defects using phase shifting holographic interferometry	
1994	Peres Bayer	Early detection of fatigue damage through ultrasonic nondestructive evaluation	
1995	Boris Liipkin	Development of tools for radiographic defects scanning in ceramic materials	
1995	Deeb Faraj	Quality improvement plant for tanks workshop	
1995	Michal Galin	The correlation between the quality system and final quality	
1995	Natalia Portnoi	Combining service elements in quality requirements from calibration and testing laboratories	
1997	Naomi Pinkas	Requirements model for a quality assurance system of research and development laboratories	
1997	Yonat Granot	Criteria for compliance of R&D laboratory in defined development objectives	
1997	Jana Bogoskavski	Kaizen Scenarios – before and after	
1997	Tatyana Scwierz-Iosefzon	Measurement of discontinuity's dimensions by microfocus radiography	

Name: Amos Notea, Ph.D.

Holon Institute of Technology  
Date: 21st June 2020

**G2. M.A./M.Sc. STUDENTS** (please indicate if degree is with "thesis" or "final project"), contd.

Year	Name of Student	Title of Thesis/Final MSc Project	Name of Academic Institution
1999	Nava Stern*	Quantifying the uncertainty of a microbiological test on drinking water	
1999	Eleonora Gitterman	Feasibility of x-ray radiography for characterizing quality of poultry eggs	
2001	Kalman Simon*	Evaluation of methods for fault detection processes in software requirements document	
2001	Riki Assayag	Measuring consensus in decision making	
2002	Lina Teper	Evaluation of uncertainty in the ISO model for uncertainty in measurements	
2002	Adar Gilady	Significance of international requirements for the accreditation of personnel certification	
2002	Alona Rotshtein	Initiation of a risk management system in software development company	
2003	Angelica Horovitz	Proficiency testing of gazolin laboratories	
2003	Eldad Kociak	Generation, development and implementation of uniform quality and reliability measures of Material Command in Air Force	
2003	Yangaiv Tatiana*	Legal Metrology in Israel	
2003	Sagy Kittel	Quality Infrastructures enable Global Trade	
2004	Havy Sarel	Comparison of major quality prices	
2004	Ilanit Nahum	Comparison of real time hospitalization control to post hospitalization control	
2004	Einat Matsaro	Evaluation of ISO 17025 requirements for validation and proficiency testing in microbiological laboratory	
2004	Israel Grinberg	Evaluation of ISO 17025 implementation in the Air Force Measurement Laboratory	
2004	Michal Golan	Evaluation of B.A. program at Haifa University in light of the ABET criteria: A case study	
2004	Orit Kazir	Review of generic drug product application approval by the US Health Authorities (FDA)	

\*Supervision with an additional staff member

**G2. M.A./M.Sc. STUDENTS** (please indicate if degree is with "thesis" or "final project"), contd.

Year	Name of Student	Title of Thesis/Final M.Sc. Project	Name of Academic Institution
2004	Mierav Blay	Evaluation of ISO 9001: 2000 implementation at the Faculty of Humanities, Haifa University, in light of the ABET criteria	
2004	Anat Yanko	Information management – Development of traceability management system in Elit Ltd.	
2004	Ayala Kobo*	System of process control and SPC	
2004	Hila Oren*	New approach to uncertainty estimation in chemical testing of foods incorporating Horwitz's generic model	
2005	Shira Cohen	Model of uncertainty determination in calibration for strain-gauge measurements complying with ISOGUM	
2005	Liap Yosiphoviz	Evaluation of implementing occupational health and safety management system in the Air Force unit	
2005	Irit Pav	Evaluation of uncertainty in chemical testing to determine the percentage of fat in meat	
2005	Anat Mansano	LEAN monitoring model in pharmaceuticals production line	
2005	Eran Force	Quality improvement model for a regional school	
2005	Orly Arnon	Quality management system in a developing pharmaceutical company	
2006	Elisia Bertoviski	Validation and verification of analytical methods in a pharmaceutical laboratory	
2005	Katerina Grodeski*	Method for dimensions extraction from products' radiographs	
2005	Galia Harel	Improvements of an online monitoring process in microelectronics industry	
2006	Inna Zhivin	Qualification of in house reference standard from non-official sources in pharmaceutical companies	
2010	Igor Tovenberg*	FINAL PROJECT: Novel NDT method for strength of construction iron after fire disaster	HIT – Holon Institute of Technology

\*Supervision with an additional staff member

**G2. M.A./M.Sc. STUDENTS** (please indicate if degree is with "thesis" or "final project"), contd.

Year	Name of Student	Title of Thesis/Final M.Sc. Project	Name of Academic Institution
2010	Inna Glozgal	FINAL PROJECT: Uncertainty in solubility tests of slow release medications in stomach	HIT – Holon Institute of Technology
2013	Yagil Shoef	FINAL PROJECT: Novel NDT method for strength of construction iron after fire disaster	HIT – Holon Institute of Technology
2013	Avi Shaul	FINAL PROJECT: Development of covert methodology for aircrafts	HIT – Holon Institute of Technology
2013	Adam Baruch	FINAL PROJECT: Israel regulation contribution to safety of elevators in Israel	HIT – Holon Institute of Technology
2015	Jana Reichman*	FINAL PROJECT: Quality assurance based HACCP of Strauss water dispensers	HIT – Holon Institute of Technology
2018	Yair Amar	FINAL PROJECT: Metrological characteristics for the measurement of mercury concentration in air	HIT – Holon Institute of Technology
2019	Gino Zachi	FINAL PROJECT: "Audit Based Thinking" ABT for quality management system	HIT – Holon Institute of Technology
2019	Raya Brikner	FINAL PROJECT: Development of a working tool for high efficient and quality for lightening in working places	HIT – Holon Institute of Technology
2019	Maya Leib	FINAL PROJECT: Influence of risk base thinking process on risk mitigation and uncertainty in production and assembly of injected plastic components	HIT – Holon Institute of Technology
2020	Ilan Amoyal*; Liran Biar*	FINAL PROJECT: Disaster victims identification system by fingerprints	HIT – Holon Institute of Technology
2020	Itzhak Sbag*; Itay Sharaaby*	FINAL PROJECT: Quality improvement based FMECA of sampling hygiene in disaster victims identification by DNA analysis	HIT – Holon Institute of Technology
2020	Josephine Yoseph-Sapir	FINAL PROJECT: Connectivity of workers education and experience levels to organizational change acceptance (Extension of the KÖTTER model)	HIT – Holon Institute of Technology
2020	Polina Kraninansky; Michal Hadany	FINAL PROJECT: Study of audit type influence on its efficiency by matrix grading (Similar to risk matrix grading)	HIT – Holon Institute of Technology

\*Supervision with an additional staff member

**G2. M.A./M.Sc. STUDENTS** (please indicate if degree is with "thesis" or "final project"), contd.**In progress:**

<b>Year</b>	<b>Name of Student</b>	<b>Title of Thesis/Final M.Sc. Project</b>	<b>Name of Academic Institution</b>
2020-	Menalo Brihon*	FINAL PROJECT: Compliance study of quality management systems in service organizations	HIT – Holon Institute of Technology
2020-	Ayellet Yoseph; Moshe Karaso	FINAL PROJECT: Holistic quality audits	HIT – Holon Institute of Technology
2020-	Natasha Pazdinikov*	FINAL PROJECT: Uncertainty in concentration testing of vitamins B1, B3, B6 in infant's food	HIT – Holon Institute of Technology
2020-	Natasha Koren	FINAL PROJECT: Characterization and improvement of sea communication systems	HIT – Holon Institute of Technology
2020-	Lena Mintz	FINAL PROJECT: Quality of assembling chips on electronic board	HIT – Holon Institute of Technology

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\*Supervision with an additional staff member



## PUBLICATIONS

### B. BOOKS

1. G. Birkhoff, A. Notea  
Planning of monitoring systems  
in: "Monitoring of Plutonium Contaminated Solid Waste Streams"  
EURATOM Pub. EUR 5635e, 1977 [invited]
2. G. Birkhoff, L. Bondar, A. Notea, Y. Segal  
Principles and theory of radiometric assay  
in: "Monitoring of Plutonium Contaminated Solid Waste Streams"  
EURATOM Pub. EUR 5636e, 1977
3. G. Birkhoff, A. Notea  
Passive gamma assay: Applicability and limitations  
In: "Monitoring of Plutonium Contaminated Solid Waste Streams"  
EURATOM Pub. EUR 5637e, 1977
4. E. Dar-EI, A. Notea, A. Hari  
"Productivity & Quality Management Frontiers 9"  
Proc. 9th Int'l. Conf. on Productivity and Quality Research  
Jerusalem, Israel, 25-27 June 2000  
MCB University Press, Bradford, West Yorkshire, UK  
[ISBN: 978-0-86176-651-2]

### C. REFEREED ARTICLES

1. S.A. Scott, A. Notea  
New determination of  $^{16}\text{N}$  half-life  
Nuclear Physics, 77, 1966 (641-649)
2. A. Notea, A.P. Hoffman, S. Shalev  
Evaluation of the  $^{17}\text{N}$  reactor power level monitor  
J. Nuclear Energy, Parts A/B, 20, 1966 (371-372)
3. S. Amiel, J. Gilat, A. Notea, E. Yellin  
Experiments with very short-lived fission products,  
Loop experiments with an emanation source  
Arkiv fur Fysik, 36, 1967 (169-176)
4. Y. Gurfinkel, A. Notea  
Use of  $^{133}\text{Ba}$  as a calibration standard for Ge(Li) detectors  
Nuclear Instruments & Methods, 57, 1967 (173-174)
6. A. Notea, Y. Gurfinkel  
Transitions in  $^{133}\text{Cs}$  from the decay of  $^{133}\text{Ba}$   
Nuclear Physics, A107, 1968 (193-208)(1968)
7. A. Notea, Y. Nir-EI  
Relative calibration of neutron sources by a point detector  
Nuclear Instruments & Methods 62, 1968 (43-44)

**C. Refereed articles, contd.**

8. S. Amiel, J. Gilat, A. Notea, E. Yellin  
A program for a systematic experimental study of delayed neutron emission in fission, in: "Delayed Fission Neutrons"  
Int'l. Atomic Energy Agency IAEA, Vienna, 1968 (115-145)
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68. D. Ingman, A. Notea, E. Taviv  
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of thermal neutron absorption  
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69. A. Notea  
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Dec. 1983 [invited]
70. A. Notea  
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71. A. Notea  
The design of quality control nets in production plant  
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72. A. Notea, Y. Segal, O. Gilat, E. Segal, S. Gershovitz  
Examination of structures from composite materials with advanced radiography  
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June 1984 (6-7) [invited]
73. A. Notea  
Extraction of quantitative information from radiographic testing  
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74. A. Notea, S. Gershovitz  
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75. A. Notea, Y. Segal, O. Gilat, E. Segal, S. Gershovitz  
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76. A. Notea  
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77. A. Notea  
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79. A. Ginzburg, Y. Carmel, A. Notea Y. Segal  
Spectral and spatial characteristic of x-ray film/screens combination  
17th Int'l. Cong. On "High Speed Photography and Photonics"  
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80. A. Notea  
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81. A. Notea  
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82. A. Notea  
Integration of information from nondestructive evaluation with producibility  
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83. A. Notea  
Required reliability from models for the evaluation of risk from emission of hazardous gases  
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5 November 1986 (16-17) [invited]
84. A. Notea  
Applications of film tomography technique for QNDE  
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85. A. Notea, D. Pal, M. Deutsch  
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in: J. Farley, R.W. Nichols (eds.) "Nondestructive Testing"  
Proc. 4th European Conf., London, Pergamon Press, Oxford, UK, 1988 (2093-2101)
86. A. Notea  
Quality of measurement system expressed by the instrument function  
Trans. 21st Israel Conf. on Mechanical Engineering, June 1987 (4.9.5) [invited]
87. T.E. Feuchtwang, A. Notea, P.H. Cutler  
Metrological considerations in the interpretation of scanning tunneling  
microscope STM and scanning tunneling spectroscopy STS data  
2nd Int'l. Conf. Scanning Tunneling Microscopy/Spectroscopy, Oxnard, CA, USA, July 1987
88. T.E. Feuchtwang, A. Notea  
Semi-empirical and phenomenological instrument functions for scanning tunneling microscope  
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Trieste, Italy, July 1987

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Solution of the inverse problem in radiographic interpretation by theoretical model and convolvable function  
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90. D. Pal, A. Notea, M. Deutch  
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91. F. Trichter, A. Notea  
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92. T.E. Feuchtwang, P. Cutler, A. Notea  
Contributions towards a linear response theory of the scanning tunneling microscope  
3rd Int'l. Conf. on STM, Oxford, UK, 4-8 July 1988
93. A. Notea, Y. Tzabari, K. Rudich, D.G. Brandon  
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3rd Int'l. Symp. on Ceramic Materials and Components for Engines  
Las Vegas, USA, November 1988
94. A. Notea  
Quality assurance and reliability education at the Technion  
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2.2.2, 1988 (1-3) [invited]
95. A. Notea, K. Rudich, Y. Bushlin  
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98. A. Lindegaard-Andersen, A. Notea  
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99. Y. Bushlin, A. Notea  
Probability of detection in radiographic examination  
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100. A. Notea  
Quality education program at the Technion  
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101. A. Notea, D. Pal, M. Deutsch  
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102. P.A. Dickstein, A.N. Sinclair, S. Girshovich, Y. Sternberg, H. Leibowitch, A. Notea  
A statistical approach for the ultrasonic feature-based  
classification of composite adhesive joints  
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103. A. Notea  
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for high degrees at the Technion  
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104. A. Stekel, A. Notea, J. Shamir  
Characterization of "strength" by holographic interferometry  
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105. A. Notea  
Quantitative measurements for evaluation and control in total quality approach  
5th Israel Materials Engineering Conf., Freund Pub. House Ltd.  
England and Israel, December 1990 (507-512) [invited]
106. Y. Bushlin, A. Notea, A. Lindegaard-Andersen, J. Rheinlander  
Analysis of inherent effects in film based tomography  
5th Israel Materials Engineering Conf., Freund Pub. House Ltd.  
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107. H. Niv, A. Notea, Y. Bushlin  
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108. A. Fishman, A. Notea, N. Thomsen, J. Larsen  
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109. A. Notea  
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Symp. on Materials Science, Israel, March 1990  
Report TQAR-L/4 [invited]
110. A. Notea, Y. Bushlin  
Edge definition in vertical and horizontal film-based tomography  
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Univ. CA, San Diego, La-Jolla, USA, July 1990
111. A. Stekel, A. Notea, J. Shamir  
Quantitative holographic interferometer of internal defects in testing bars  
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112. P.A. Dickstein, A.N. Sinclair, S. Girshovich, Y. Sternberg, H. Leibovitch, A. Notea  
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D.O. Thompson, D.E. Chimenti (eds.)  
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Ultra-fast digital x-ray and 3/4-ray imaging detectors  
1st Nat. Conf. of the Israel Soc. for Quality Assurance, November 1991
114. R. Shtekel, A. Notea  
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115. H. Niv, A. Notea  
Statistical characteristic of texture obtained in radiographic testing  
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116. A. Fishman, A. Notea, N. Thompsen, J. Larsen  
New radiography techniques for advanced materials  
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117. A. Notea, Y. Bushlin, U. Feldman  
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118. Y. Bushlin, A. Notea, A. Lindegaard-Andersen, J. Rheinlander  
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119. A. Notea, E.W. Tollner  
Potential of x-ray tomography methods for packinghouse quality control  
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120. A. Notea  
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Sao Paulo, 18-23 Oct. 1992 [invited]
121. A. Notea  
Academic program in quality education  
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**E. Papers presented at scientific meetings published in proceedings, contd.**

122. A. Notea  
Accreditation of laboratories according to ISO Guide 25 (in Hebrew)  
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May 1993 (28-29) [invited]
123. E.W. Tollner, H.A. Affeldt, P. Chen, B. Zion, G. K. Brown, T. Shatzki, A. Notea,  
I. Shmulevitch, Y. Sarig, N. Galili, C.G. Haugh  
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BARD Workshop, Spokane, Washington, USA (15-18 June 1993)
124. A. Notea, U. Feldman  
Physically based LSF for interpretation of radiographic images  
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125. I. Frumkin, A. Notea, A. Breskin, R. Chechik  
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Plenum Press, 13A, 1994 (563-569)
126. A. Notea  
Laboratory accreditation in Israel and abroad  
Israel Metallurgical Soc. Meeting "NDT and Welding", October 1993 [invited]
127. A. Notea  
Linkage between quality, safety and environmental  
Int'l. Standards 2nd Nat. Conf. of the Israel Soc. of Quality  
Tel Aviv, Israel, November 1993 (198-200) [invited]
128. A. Notea  
Quality assurance in construction and NDT  
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Tel Aviv, Israel, November 1993 [invited]
129. A. Altar, A. Notea, I. Shmulevich  
Apple quantitative quality indices by tomographic methods  
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Orlando, USA, February 1994
130. A. Breskin, R. Chechik, A. Gibrekhternman, L. Levinson,  
B. Weingarten, I. Frumkin, A. Notea  
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131. T. Josefson-Shwirz, A. Notea  
Application of microfocus system combined with image amplification for  
improvement of flaws' quality detection (in Hebrew)  
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Tel-Aviv, Israel 15-16 November 1995 (160-165)

**E. Papers presented at scientific meetings published in proceedings, contd.**

132. A Notea  
Certification and accreditation for whom and by whom (in Hebrew)  
3rd Nat. Conf. of the Israeli Quality Soc.  
Tel-Aviv, Israel, 15-16 November 1995 (211-215)
133. A. Notea  
Guidance - consultancy approach of accreditation body to the laboratories  
In: "Testing and analysis for industrial competitiveness and sustainable development"  
3rd EUROLAB Symp., Berlin, Germany, 5-7 June 1996 (310-315)
134. A. Notea  
Measures for audit of laboratory accreditation  
EUROLAB expert meeting, Paris, France, July 1996
135. A. Notea  
Remarks for the requirements from bodies operating assessment  
and certification of quality systems  
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136. A. Notea  
Indices for accreditation of in-house methods in laboratory  
ILAC Expert Meeting, Paris, France, May 1997
137. A. Notea  
Proposed measures for promotion of laboratory accreditation  
ILAC Meeting, Gaithersburg, USA, October 1997
138. A. Notea  
Uncertainty considerations in in-house calibration  
Madrid, Spain, October 1997
139. A. Notea  
Measures for evaluation of quality system accreditation  
Plenary Meeting of IAF, Queensland, Australia, October 1998
140. A. Notea  
Experience from development of infrastructure for laboratory accreditation system in Israel  
ILAC Seminar, Sydney, Australia, October 1998
141. A. Notea  
Measures for application in quality management systems  
IAF Plenary Meeting, Vienna, Austria, 27 September-1 October 1999
142. A. Notea  
Theoretical evaluation of radiography by high energy photons  
NDT WG, New York, USA, 2000
143. A. Notea  
Application of high energy interrogation for Homeland Security (in Hebrew)  
ISRANDT Annual Meeting, Shefaim, Israel, 2001
144. A. Notea  
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### **E. Papers presented at scientific meetings published in proceedings, contd.**

145. A. Notea  
NDT in monitoring (Hebrew)  
ISRANDT Annual Meeting, Shefaim, Israel, 2002
146. A. Notea  
ISRACERT – Int'l. status (in Hebrew)  
ISRANDT Annual Meeting, Shefaim, Israel, 2002
147. T. Schwiertz-Josefzon, A. Notea, M. Deutch  
On-line testing of products' design conformity by single-projection radiography  
ACSIM 2002 – Proc. 3rd Asia Pacific Conf. on System Integrity & Maintenance  
Cairns, Australia, 25-28 September 2002
148. A. Notea  
Guidelines for evaluation of high energy scanner system  
Industrial Forum, Atlanta, USA, 2003
149. A. Notea  
High energy 3D scanners properties (Hebrew)  
ISRANDT Annual Meeting, Shefaim, Israel, 2003
150. A. Notea  
Evaluation of high energy scanner  
US-Russian Expert Meeting, Moscow, Russia, 2004
151. S. Cohen, A. Notea  
Asymmetric LSF in quantitative radiography (in Hebrew)  
ISRANDT Annual Meeting, Shefaim, Israel, 2006
152. S. Cohen, A. Notea  
LSF - The quality characteristic function of radiographic systems  
16th Int'l. Conf. of the Israel Soc. for Quality  
Tel-Aviv, Israel, 14-16 November 2006

**245 presentations have been published up to 2019. Many appear on the internet sites.**

### **H. OTHER PUBLICATIONS**

#### **H1. Patents**

1. A. Notea, A. Lindegaard-Andersen  
New scanning technique in tomography  
Spherical Tomography, Denmark, August 1988

### **H. OTHER PUBLICATIONS**

#### **H2. Reports**

1. A. Notea  
Evaluation of fast neutron spectroscopy by time of flight technique  
Israel Atomic Energy Commission Report IA-1025, 1965
2. A. Notea  
Delayed neutron yields in fission reactions  
Israel Atomic Energy Commission Report IA-1161, 1968

**330 reports have been published for industry and government departments in Israel and abroad.**

**Research Activities:****Science of Measurements and Quality Systems**

Measurement is the cornerstone for data based decisions. Prof. Notea is conducting research in the science of measurements from the system approach perspective. The interpretation of measurement results in terms of the characteristics parameters involves the solution of a multidimensional inverse problem. The efforts have been concentrated on the development of real-time workable systematic solutions for inverse problems (mostly nonlinear) under a given set of constraints. The modeling is based on theoretical and phenomenological semi-empirical approach. The models lead to better understanding of the uncertainty sources in the measurement, to optimization of the design parameters and calibration procedures, and to reliability evaluation of the measurement procedure.

The studies have contributed to the transformation of measurement/interpretation procedures to a computer-based technology. The approach developed was tested and verified on a wide range of measurement systems and gauges used for quality and process control in laboratories, industrial plants and under field conditions. The experience gained was with measurement systems based on: Nuclear radiations, assay systems, robotic scanning systems contamination, nondestructive methods with major emphasis on radiography and tomography, scanning tunneling microscopy – spectroscopy for surface study and control.

**Management Compliance to International Standards and Regulations** – Quality, Safety, Health, Environment, Security (physical and information). R&D of novel approaches, techniques and models

Since 1982 Prof. Notea's activity has also been directed to the development of accreditation schemes for laboratories, certification of organizations and workers complying with the quality management systems international standards, including the aspects of calibration, traceability, uncertainty and verification/validation.

In August 1993 his program for establishing the infrastructure for the Israel national accreditation body for laboratories **ISRAC** was approved by the Ministry of Industry and Trade (the law was approved in 1997). In 2001 his certification model for Nondestructive Evaluation workers in Israel was accredited by a European Body of Accreditation.