



UNIVERZITA  
KARLOVA

Udělení  
**čestného doktorátu UK**  
Prof. Rolfu-Dieteru Heuerovi, Ph.D.  
a Prof. Thomasi Evanu Levymu  
ve Velké aule Karolina  
6. dubna 2018

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Award of  
**CU honorary doctorate to**  
Prof. Rolf-Dieter Heuer, Ph.D.  
and Prof. Thomas Evan Levy  
in the Great Hall of the Carolinum  
6<sup>th</sup> April 2018



Prof. Rolf-Dieter Heuer, Ph.D.



Prof. Thomas Evan Levy





# CURRICULUM VITAE

## A ZDŮVODNĚNÍ NÁVRHU NA UDĚLENÍ ČESTNÉ VĚDECKÉ HODNOSTI

**Prof. Dr. Rolf-Dieter Heuer**

\*1948

Profesor Rolf-Dieter Heuer se narodil v roce 1948 v Boll/Goeppingen. Studoval fyziku na Univerzitě ve Stuttgartu, kde promoval v roce 1974, PhD získal na Univerzitě v Heidelbergu v roce 1977 pod vedením Prof. Joachim Heintze. Prof. Heuer je experimentální částicový fyzik. Většina jeho vědecké práce se týkala srážek elektronů s pozitrony, vývoji experimentálních technik, konstrukci a využívání velkých detektorových systémů.

V roce 1977 se stal vědeckým pracovníkem na Univerzitě v Heidelbergu a pracoval do roku 1983 pro experiment JADE na elektron-pozitronovém urychlovači PETRA v laboratoři Deutsche Elektronen-Synchrotron (DESY) v Hamburгу. V letech 1984 až 1998 byl Prof. Heuer kmenovým zaměstnancem v CERN a pracoval pro experiment OPAL na elektron-pozitronovém urychlovači LEP. Odpovídal za koordinaci návrhu a konstrukce dráhové jetové komory a koordinoval přípravu celého systému rekonstrukce drah během konstrukce experimentu. Poté se stal koordinátorem provozu experimentu OPAL během startovní fáze LEP1 v letech 1989–1992 a konečně na léta 1994–1998 vedoucím tohoto experimentu, odpovědným za vědecký výstup a všechny aspekty spolupráce více než 300 fyziků. V jeho funkčním období probíhala analýza dat fáze LEP1 a příprava na zvýšení energie svazků ve fázi LEP2.

V roce 1998 byl Rolf-Dieter Heuer ustaven na pozici řádného profesora (C4) na Univerzitě v Hamburгу. Vstoupil do experimentu H1 na urychlovači HERA v DESY a současně s tím ustavil pracovní skupinu, která připravovala experimenty na plánovaný elektron-pozitronový urychlovač Linear Collider. Skupina rychle získala vedoucí roli v této oblasti ve světovém měřítku. V prosinci 2004 se Prof. Heuer stal vědeckým ředitelem pro částicovou a astročásticovou fyziku v DESY, která je členem Helmholtzovy aliance. Hlavním cílem bylo udržet DESY jako ústřední částicovou laboratoř v Německu a posílit její vazbu na univerzity a na CERN. S tímto cílem Prof. Heuer inicioval restrukturalizaci částicové fyziky v Německu a její zaměření na využití nejvyšších energií se speciálním důrazem na urychlovač LHC budovaný v CERN. Jeho iniciativa vyústila v projekt Helmholtzovy aliance “Physics at the Terascale” zahrnující všechny německé univerzitní skupiny pracující v částicové fyzice nejvyšších energií

společně s Helmholtzovými centry DESY a Karlsruhe. Podporoval také účast na projektu elektron-pozitronového srážče ILC and vývoji detektorů pro něj.

V prosinci 2007 byl Prof. Heuer zvolen generálním ředitelem CERN pro funkční období od ledna 2009. Během prvních dvou let jeho mandátu (2009, 2010) byl urychlovač LHC zprovozněn a zahájil velmi úspěšné období fyzikálních experimentů při nejvyšších energiích, které kdy lidstvo pomocí urychlovačů dosáhlo. Vedle LHC je v CERN kladen velký důraz na rozmanitou fyziku využívající celý urychlovačový komplex. Prof. Heuer také aktivně angažoval CERN při zviditelňování vědy a podpoře vzdělávání ve vědě, technologii, inženýrských disciplínách a matematice pro udržitelný rozvoj společnosti.

Během svého ředitelství v DESY a CERN získal manažerskou zkušenost a navázal mnohé mezinárodní kontakty. Dnes je členem řady řídicích a poradních těles.

Je prezidentem Německé fyzikální společnosti a rady SESAME (Synchrotron-Light for Experimental Science and Applications in the Middle East). Publikoval přes 500 vědeckých článků a bylo mu uděleno 18 čestných doktorátů univerzit v Evropě, Asii, Austrálii a Kanadě. Je členem Německé akademie věd Leopoldina, členem Polské akademie věd a umění, korespondujícím členem Akademie věd a umění v Heidelbergu, honorárním konzulem AGH University v polském Krakově, čestným členem Evropské fyzikální společnosti, a nositelem Velkého kříže prvního stupně Řádu za zásluhy Spolkové republiky Německo.

## PROMOČNÍ FORMULE A SLIB DOKTORANDA

### Promotor:

Cōnsiliū Facultātis mathēmaticae physicaeque disciplīnae Ūniversitātis Carolīnae nōn ignōrāns, tē et doctrīnā tuā, quam in particulārum physicae quaestiōnēs perscrūtandās impendistī, et vitae tuae operibus necnōn āctibus, quibus patriae tuae atque tōtīus mundī cōgnitiōnem et scientiam generī hūmānō maximē prōficuam amplificāvistī, dē salūte ūniversī generis hūmānī prae cēterīs optimē meritum esse

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Prius autem spōnsiō sollemnis tibi suscipienda est.

### SPONDĒBIS IGITUR:

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Haec tū ex animī tuī sententiā spondēbis ac pollicēberis?

### Doctor:

SPONDEŌ AC POLLICEOR

### Promotor:

Itaque iam nihil impedit, quōminus honōrēs, quibus tē ordō noster ornāre cupit, tibi impertiāmus.

Ergō ego, prōmōtor rīte cōstitutus,

ex dēcrētō cōnsiliī Facultātis mathēmaticae physicaeque disciplīnae

tē, professōrem Rolf-Dieter Heuer

virum doctissimum, quī dē particulārum physicā doctē excolendā, scientiae augendae īnstitutīs CERN (European Organization for Nuclear Research), DESY (Deutsches Elektronen-Synchrotron), DPG (Deutsche Physikalische Gesellschaft) prōsperē moderandīs, Ūniversitatē Carolīnā ad doctae excellentiae statum validē prōsequendā optimē sīs meritis

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QUOD BONUM, FĒLĪX,  
FAUSTUM FORTŪNĀTUMQUE ÈVENIAT!



# TEXT DIPLOMU

Q.B.F.F.Q.S

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UNIVERSITAS CAROLINA  
LECTURIS SALUTEM

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HUMANITATEM PROMOVENDAM MIRUM QUANTUM CONTULERUNT  
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ROLF-DIETER HEUER

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IN EUM CONTULIMUS

IN CUIUS REI FIDEM HASCE LITTERAS MAIORE UNIVERSITATIS CAROLINAE  
SIGILLO ROBORANDAS CURAVIMUS

DABAMUS PRAGAE DIE VI MENSIS APRILIS ANNI MMXVIII

DECANVS

RECTOR

PROMOTOR

## LAUDATIO DĚKANA MATEMATICKO-FYZIKÁLNÍ FAULTY UK

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V roce 1977 se stal vědeckým pracovníkem na Univerzitě v Heidelbergu a pracoval do roku 1983 pro experiment JADE na elektron-pozitronovém urychlovači PETRA v laboratoři Deutsche Elektronen- Synchrotron (DESY) v Hamburгу.

V letech 1984 až 1998 byl Prof. Heuer kmenovým zaměstnancem v CERN a pracoval pro experiment OPAL na elektron-pozitronovém urychlovači LEP. V období 1994-1998 byl vedoucím tohoto experimentu, odpovědným za vědecký výstup a všechny aspekty spolupráce více než 300 fyziků.

V roce 1998 byl Rolf-Dieter Heuer ustaven na pozici řádného profesora (C4) na Univerzitě v Hamburгу. Vstoupil do experimentu H1 na urychlovači HERA v DESY a současně s tím ustavil pracovní skupinu, která připravovala experimenty na plánovaný elektron-pozitronový urychlovač Linear Collider. Skupina rychle získala vedoucí roli v této oblasti ve světovém měřítku.

V prosinci 2004 se Prof. Heuer stal vědeckým ředitelem pro částicovou a astročásticovou fyziku v DESY, která je členem Helmholtzovy aliance. Hlavním cílem bylo udržet DESY jako ústřední částicovou laboratoř v Německu a posílit její vazbu na univerzity a na CERN.

V prosinci 2007 byl Prof. Heuer zvolen generálním ředitelem CERN pro funkční období od ledna 2009. Během prvních dvou let jeho mandátu (2009, 2010) byl urychlovač LHC zprovozněn a zahájil velmi úspěšné období fyzikálních experimentů při nejvyšších energiích, které kdy lidstvo pomocí urychlovačů dosáhlo. Tento výzkum vedl mimo jiné k objevu Higgsova bosonu. Vedle LHC je v CERN kladen velký důraz na rozmanitou fyziku využívající celý urychlovačový komplex. Prof. Heuer také aktivně angažoval CERN při zviditelňování vědy a podpoře vzdělávání ve vědě, technologii, inženýrských disciplínách a matematice pro udržitelný rozvoj společnosti. Jeho velice úspěšný mandát generálního ředitele CERN byl prodloužen o dva roky, což se stalo pouze podruhé ve více než šedesátileté historii CERN.

Během svého ředitelství v DESY a CERN získal manažerskou zkušenost a navázal mnohé mezinárodní kontakty. Dnes je členem řady řídicích a poradních těles.

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Je nositelem Velkého kříže prvního stupně Řádu za zásluhy Spolkové republiky Německo.

Vědecká spolupráce Prof. Heuera s českou vědeckou komunitou trvá již od období experimentů na urychlovači LEP. Spolupráce nabyla na síle v období výjimečně úspěšného ředitelování Prof. Heuera v CERN. Prof. Heuer několikrát navštívil Českou Republiku, je aktivním členem Mezinárodní rady UK. V roce 2012 mu byla udělena pamětní medaile Matematicko-fyzikální fakulty UK, v roce 2014 zlatá medaile Univerzity Karlovy a v roce 2016 nejvyšší ocenění Akademie věd České republiky, medaile De scientia at humanitate optime meritis.

Prof. Rolf-Dieter Heuer je nepochybně jedním z nejuznávanějších světových vědců, který dlouhodobě pěstuje aktivní vztahy s vědci ČR a Univerzitou Karlovou. Je mi velkou ctí, že mohu přispět a zúčastnit se slavnosti udělení doctor honoris causa.

**SLAVNOSTNÍHO CEREMONIÁLU  
VE VELKÉ AULE KAROLINA SE ÚČASTNÍ  
TITO ZÁSTUPCI UNIVERZITY KARLOVY**

Jeho Magnificence rektor UK      prof. MUDr. Tomáš Zima, DrSc.

Spectabilis děkan MFF UK      prof. RNDr. Jan Kratochvíl, CSc.

Honorabilis promotor      doc. RNDr. Jiří Dolejší, CSc.

a další čelní představitelé Univerzity Karlovy a jejích fakult.





# CURRICULUM VITAE

## AND JUSTIFICATION OF THE AWARD

**Prof. Dr. Rolf-Dieter Heuer**

\*1948

Professor Rolf-Dieter Heuer was born in 1948 in Boll/Goepfingen. He studied physics at the University of Stuttgart where he graduated in 1974, and obtained his PhD at the University of Heidelberg in 1977 under the supervision of Prof. Joachim Heintze. Prof. Heuer is an experimental particle physicist. Most of his scientific work has been related to the study of electron-positron reactions, development of experimental techniques, as well as construction and running of large detector systems.

In 1977 he became research scientist at the University of Heidelberg working for the JADE experiment at the electron-positron storage ring PETRA until 1983, situated at the Deutsche Elektronen-Synchrotron DESY in Hamburg. From 1984 to 1998, Prof. Heuer was a staff member at CERN, working for the OPAL experiment at the electron-positron storage ring LEP. He was responsible for the coordination of design and construction of the tracking jet chamber and coordinated the whole tracking system during the experiment construction phase. He then became the run coordinator during the start-up phase of LEP1 in 1989-1992 and the OPAL spokesperson in 1994-1998, responsible for all aspects of the collaboration, comprising over 300 physicists, and for its scientific output. His term of office covered LEP1 data analysis and the LEP2 energy upgrade.

In 1998, Rolf-Dieter Heuer was appointed to a chair at the University of Hamburg (C4 professor). He joined the H1 experiment at the HERA collider at DESY and in parallel established a group working on the preparations for experiments at an electron-positron Linear Collider which quickly became one of the leading groups in this area world-wide. In December 2004, Prof. Heuer became research director for particle and astroparticle physics at the DESY laboratory, a member of the Helmholtz association. The main emphasis was to maintain DESY as the central particle physics laboratory in Germany, and to strengthen the links to the Universities as well as the links to CERN. To this extent he initiated the restructuring and focusing of German particle physics at the energy frontier with particular emphasis on the LHC. This resulted in the Helmholtz-Alliance "Physics at the Terascale" comprising all German University groups working at the energy frontier together with the Helmholtz centres DESY and Karlsruhe. He also fostered the participation in the electron-positron collider project ILC and the detector R&D related to it.

In December 2007 Prof. Heuer was elected Director General of CERN taking office January 2009. During the first two years of his mandate (2009, 2010) the LHC was brought into operation and started its very successful physics runs at the high energy frontier. In addition to the flagship LHC much emphasis is put on diversity of physics at CERN using the whole accelerator complex. He also actively engaged CERN in promoting the importance of science and STEM education for the sustainable development of the society.

During his directorates at DESY and at CERN he gained managerial experience and established many international contacts. Today he is member of several governing and advisory boards.

Designated President of the German Physical Society and of the Council of SESAME (Synchrotron-Light for Experimental Science and Applications in the Middle East).

Over 500 scientific papers published and holding 18 Honorary Degrees from universities in Europe, Asia, Australia and Canada.

Member of the German Academy of Sciences Leopoldina, Germany

Member of Polish Academy of Arts and Sciences, Cracow, Poland

Corresponding Member, Heidelberg Akademie der Wissenschaften, Germany

Honorary Consul, AGH University, Cracow, Poland

Honorary Member of the European Physical Society

Recipient of the Grand Cross 1st class of the Order of Merit of the Federal Republic of Germany



## GRADUATION FORMULA AND OATH OF THE DOCTORANDUS

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Cōnsiliū Facultātis mathēmaticae physicaeque disciplīnae Ūniversitātis Carolīnae nōn ignōrāns, vir illūstrissime, tē et doctrīnā tuā, quam in particulārū physicae quaestiōnēs perscrūtandās impendistī, et vitae tuae operibus necnōn āctibus, quibus patriae tuae atque tōtīus mundī cōgnitiōnem et scientiam generī hūmānō maximē prōficuam amplificāvistī, dē salūte ūniversī generis hūmānī prae cēterīs optimē meritum esse

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SIGILLO ROBORANDAS CURAVIMUS

DABAMUS PRAGAE DIE VI MENSIS APRILIS ANNI MMXVIII

DECANVS

RECTOR

PROMOTOR

## **SPEECH OF THE DEAN OF THE FACULTY OF MATHEMATICS AND PHYSICS**

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In 1977 he became research scientist at the University of Heidelberg working for the JADE experiment at the electron-positron storage ring PETRA, situated at the Deutsche Elektronen- Synchrotron DESY in Hamburg.

From 1984 to 1998, Prof. Heuer was a staff member at CERN, working for the OPAL experiment at the electron-positron storage ring LEP. He was the OPAL experiment spokesperson in 1994–1998, responsible for all aspects of the collaboration, comprising over 300 physicists, and for its scientific output.

In 1998, Rolf-Dieter Heuer was appointed to a chair at the University of Hamburg (C4 professor). He joined the H1 experiment at the HERA collider at DESY and in parallel established a group working on the preparations for experiments at an electron-positron Linear Collider which quickly became one of the leading groups in this area world-wide.

In December 2004, Prof. Heuer became research director for particle and astroparticle physics at the DESY laboratory. The main emphasis was to maintain DESY as the central particle physics laboratory in Germany, and to strengthen the links to the Universities as well as the links to CERN.

In December 2007 Prof. Heuer was elected Director General of CERN taking office in January 2009. During the first two years of his mandate (2009, 2010) the LHC was brought into operation and started its very successful physics runs at the high energy frontier that lead in particular to a discovery of Higgs boson in 2012. In addition to the flagship LHC much emphasis has been put on diversity of physics at CERN using the whole accelerator complex. Prof. Heuer also actively engaged CERN in promoting the importance of science and STEM education for the sustainable development of the society. His extraordinary successful term of office of Director General has been prolonged by two years that has happened only the second time in more than 60 year's history of CERN.

During his directorates at DESY and at CERN Prof. Heuer gained managerial experience and established many international contacts. Today he is member of several governing and advisory boards. In particular, he is

designated President of the German Physical Society and of the Council of SESAME (Synchrotron-Light for Experimental Science and Applications in the Middle East).

Prof. Heuer has published over 500 scientific papers published and is holding 18 honorary Degrees from universities in Europe, Asia, Australia and Canada.

He is recipient of the Grand Cross 1st class of the Order of Merit of the Federal Republic of Germany.

The scientific collaboration of Prof. Rolf-Dieter Heuer with the Czech scientific community dates back to LEP experiments at CERN. The collaboration intensified during his extraordinary successful mission of director general of CERN. Prof. Heuer several times visited the Czech Republic. He is an active member of International Advisory Board of Charles University. He has been awarded by a Commemorative Medal of Faculty of Mathematics and Physics, Charles University in 2012, by Gold Memorial Medal of Charles University in 2014 and by the highest award of Czech Academy of Sciences, medal *De scientia at humanitate optime meritis* in 2016.

Professor Rolf-Dieter Heuer is clearly one of the most recognized scientist in the world having long termed active contacts with Czech scientists and Charles University. It is my great pleasure to contribute and to participate at this doctor honoris causa ceremony.

**THE AWARD CEREMONY IN THE CAROLINUM  
GREAT HALL WAS ATTENDED  
THE FOLLOWING  
CHARLES UNIVERSITY OFFICIALS**

His Magnificence Rector  
of Charles University

prof. MUDr. Tomáš Zima, MD., DSc.

Spectabilis Dean of the Faculty  
of Mathematics and Physics

prof. RNDr. Jan Kratochvíl, CSc.

Honorabilis promotor

doc. RNDr. Jiří Dolejší, CSc.

and others top representatives of the Charles University and its faculties.







# CURRICULUM VITAE

## A ZDŮVODNĚNÍ NÁVRHU NA UDĚLENÍ ČESTNÉ VĚDECKÉ HODNOSTI

### **Prof. Thomas Evan Levy**

Norma Kershaw profesor Archeologie starověkého Izraele  
a sousedních zemí Kalifornské univerzity v San Diegu

### **Vzdělání**

B.A. Degree, Anthropology, University of Arizona, Tucson; Dean's Honor List, 1975

Ph.D. Degree, Archaeology and Prehistory, University of Sheffield, England, 1981

### **Současnost**

Distinguished Professor, Department of Anthropology;  
Director, Center for Cyber-Archaeology and Sustainability, California  
Institute of Telecommunications and Information Technology  
(Calit2), Qualcomm Institute;

Director, UC San Diego Levantine Archaeology Laboratory;

Co-Director, Scripps Center for Marine and Environmental Archaeology,  
University of California, San Diego

### **Členství v mezinárodních organizacích**

American Academy of Arts & Sciences, Fellow Class of 2008

American Schools of Oriental Research (life member); 2015–2017 Chair,  
Committee on Archaeological Policy

Archaeological Institute of America (Academic Trustee & member of Go-  
verning Board), 2016–

Associate, Current Anthropology, 2000–

Explorers Club, Fellow Class of 2009–

Israel Exploration Society, member, 1980–

Israel Prehistoric Society, member, 1980–

The Biblical Colloquium West, founding member, 1997–2008

American Institute of Archaeology, member, 2000–

Society of American Archaeology, member, 1992–

### **Mezinárodní ocenění**

1996 University of California Presidential Award for Excellence in Un-  
dergraduate Research

1997 Best Academic Book in Archaeology, Biblical Archaeology Society,  
for T. E. Levy (ed.) 1995, *The Archaeology of Society in the Holy  
Land*. London: Leicester University Press

- 1998 Irene Levi-Sala Book Prize in the Archaeology of Israel for best publication in category of “popular non-fiction books,” for *The Archaeology of Society in the Holy Land*. London: Leicester University Press
- 2003 American Schools of Oriental Research, P. E. MacAllister *Field Archaeology Award*
- 2006 Inaugural holder of the Norma Kershaw Endowed Chair in the Archaeology of Ancient Israel and Neighboring Lands, University of California San Diego; April 30, 2006 –
- 2007 Department of Antiquities of Jordan Publication Award for *Crossing Jordan – North American Contributions to the Archaeology of Jordan* (London: Equinox) by the Department of Antiquities of Jordan, presented at the 10th Annual Conference on the History and Archaeology of Jordan, George Washington University, Washington, D.C. by H.R.H. Princess Sumaya al-Bint Hassan of Jordan and Dr. Fawwaz al-Khraysheh, Director General, DOAJ; May.
- 2008 Elected Fellow to the American Academy of Arts & Sciences, Boston, MA
- 2009 Elected Fellow to the Explorers Club, Headquarters in New York
- 2011 Biblical Archaeology Society Publication Award, Best Scholarly Book on Archaeology, *Historical Biblical Archaeology and the Future – The New Pragmatism*, (London: Equinox)
- 2011 Lowell Thomas Award for ‘Exploring the World’s Greatest Mysteries’, The Explorers Club, October 15, St. Louis, Missouri
- 2013 Best Academic Article, Biblical Archaeology Society, October, Washington, DC
- 2015 Elected member, European Academy of Sciences and Arts, March, Salzburg, Austria
- 2016 CENIC (Corporation for Education Network Initiatives in California) Award for Innovations in Networking – Research Applications
- 2017 Faculty Research Lecturer Award, University of California San Diego, Academic Senate Committee on Senate Awards

### **Nejdůležitější publikace (výběr)**

- Howland, Matthew D., Ian W. N. Jones, Mohammad Najjar and Thomas E. Levy (2018). Quantifying the effects of erosion on archaeological sites with low-altitude aerial photography, structure from motion, and GIS: A case study from southern Jordan. *Journal of Archaeological Science* 90:62–70.
- Knabb, K. A., Erel, Y., Tirosh, O., Rittenour, T., Lapidou, S., Najjar, M. and Levy, T. E. (2016). Environmental impacts of ancient copper

mining and metallurgy: Multi-proxy investigation of human landscape dynamics in the Faynan valley, southern Jordan. *Journal of Archaeological Science* 74, 85–101.

- Shaar, R., Tauxe, L., Ben-Yosef, E., Kassianido, V., Lorentzen, B., Feinberg, J. M. and Levy, T. E. (2015). Decadal-scale variations in geomagnetic field intensity from ancient Cypriot slag mounds. *Geochemistry, Geophysics, Geosystems*. 16(1), 195–214.
- Salamon, A., Ward, S., McCoy, F., Hall, J., and Levy, T. E. (2015). Inspired by a Tsunami? Earth Sciences Perspectives of the Exodus Narrative. In *Israel's Exodus in Transdisciplinary Perspective – Text, Archaeology, Culture and Geoscience*, edited by Levy, T. E., Schneider, T. and Propp, W. H. C., pp. 109–129. New York: Springer.
- Levy, T. E., and Jones, I. W. N., eds. (2018). *Cyber-Archaeology and Grand Narratives: Digital Technology and Deep-Time Perspectives on Culture Change in the Middle East*. New York: Springer.
- Levy, T. E., Schneider, T. and Propp, W. H. G. (Eds.) (2015). *Israel's Exodus in Transdisciplinary Perspective: Text, Archaeology, Culture, and Geoscience*. New York: Springer.
- Savage, S., and Levy, T. E. (2014). DAAHL – The Digital Archaeological Atlas of the Holy Land: A Model for Mediterranean and World Archaeology. *Near Eastern Archaeology* 77(3), 243–247.
- Gidding, A., Levy, T. E. and DeFanti, T. A. (2014). ArchaeoSTOR: The Development and Utilization of a Web-Based Database for the Field and Lab. *Near Eastern Archaeology* 77(33), 198–202.
- Smith, N. G., L. Passone, S. al-Said, M. al-Farhan, and T. E. Levy (2014). Drones in Archaeology: Integrated Data Capture, Processing, and Dissemination in the al-Ula Valley, Saudi Arabia. *Near Eastern Archaeology* 77 (3):176–181.
- Levy, T. E. (2014). Cyber-Archaeology – Special Issue: *Near Eastern Archaeology*, Guest editor T. E. Levy: American Schools of Oriental Research. 77: 162–255.
- Smith, N. G., Karasik, A., Narayanan, T., Olson, E. S., Smilansky, U. and Levy, T. E. (2014). The Pottery Informatics Query Database: A new method for mathematic and quantitative analyses of large regional ceramic datasets. *Journal of Archaeological Method and Theory*, 21(1), 212–250.
- Levy, T. E., Najjar, M., and Ben-Yosef, E. (2014). *New Insights into the Iron Age Archaeology of Edom, Southern Jordan – Surveys, Excavations and Research from the Edom Lowlands Regional Archaeology Project (ELRAP)*. Cotsen Institute of Archaeology Press.
- Levy, T. E. and Stanish, C. S. (2013). Cyber-Archaeology and World Cultural Heritage: Insights from the Holy Land. *Bulletin of the American Academy of Arts & Sciences*. 27.

- Petrovic, V. A. Gidding, T., Wypych, F., Kuester, T. A. DeFanti, and T. E. Levy (2011). Dealing with Archaeology's Data Avalanche. *IEEE Computer*, 44(7), 56–60.
- Levy, T. E., T. Higham, C. Bronk-Ramsey, N. G. Smith, E. Ben-Yosef, M. Robinson, S. Munger, K. Knabb, J. Schultz, M. Najjar, and L. Tauxe (2008). High Precision Radiocarbon Dating and Historical Biblical Archaeology in Southern Jordan. *Proceedings of the National Academy of Sciences*, 105(43), 16460–16465.
- Levy, T. E., Levy, A., Sthapathy, R., Sthapathy, S., & Sthapathy, S. (2008), *Masters of Fire – Hereditary Bronze Casters of South India*. Bochum: German Mining Museum.
- Levy, T. E., and T. Higham (Eds.) (2005). *The Bible and Radiocarbon Dating: Archaeology, Text and Science*. London: Equinox. (Reprinted in 2014 by Routledge).
- Levy, T. E., Adams, R. B., Hauptmann, A. Prange, M., Schmitt-Strecker, S. and Najjar, M. (2002). Early Bronze Age Metallurgy: A Newly Discovered Copper Manufactory in Southern Jordan. *Antiquity*, 76(292), 425-437
- Levy, T. E., Anderson, J. D., Waggoner, M., Smith, N., Muniz, A. and Adams, R. B. (2001). Interface: Archaeology and Technology—Digital Archaeology 2001: GIS-Based Excavation Recording in Jordan. *The SAA Archaeological Record*, 1(3), 23–29.
- Levy, T. E. (Ed.) (1995). *The Archaeology of Society in the Holy Land*. Leicester University Press (London) and Facts on File (New York). [author or co-author of introduction and Nos. 74, 75 and 76].
- Witten, A. J., Levy, T. E., Ursic, J. and White, P. (1995). Geophysical Diffraction Tomography: New Views on the Shiqmim Prehistoric Subterranean Village Site (Israel). *Geoarchaeology*, 10(2), 97–118.
- Levy, T. E. (Ed.) (1987). *Shiqmim I—Studies Concerning Chalcolithic Societies in the Northern Negev Desert, Israel (1982–1984)*. British Archaeological Reports.

### **Nejvýznamnější expedice (výběr)**

- 2017 UCSD 3D Archaeology in Israel Expedition. Project role: PI; with Assaf Yasur-Landau and Erez Ben-Yosef, September.
- 2016 UCSD – University of the Aegean (Rhodes) Kastrouli Land and Sea Project, Greece. Project role: PI; with Ioannis Liritzis and Richard Norris (SIO-UC San Diego). July 19 – August 11.
- 2015 UCSD – Institut national des sciences de l'archéologie et du Patrimoine, Morocco Cyber-Archaeology Expedition to Ifrane, Anti-Atlas mountains, ancient Jewish community.

- 2014 UCSD Cyber-Archaeology Expedition to Iron Age Khirbat al-Jariya, Jordan: Project role: PI, August.
- 2012 Cyber-Archaeology Expedition to Madh al-Dahab Gold Mines and Umm Damman Copper Production Site, Saudi Arabia; King Abdullah University of Science and Technology (KAUST), Saudi Arabia, Project role: Co-Field Director. September 3 – 11.
- 2012 UCSD Edom Lowlands Regional Archaeology Project (ELRAP); Phase II expedition to Faynan; October 1 – November 24. Principal Investigator and Co-Field Director.
- 2011 UCSD Edom Lowlands Regional Archaeology Project (ELRAP); Phase II expedition to Faynan; September 24 – November 24. Principal Investigator and Co-Field Director.
- 2009 UCSD Edom Lowlands Regional Archaeology Project (ELRAP) expedition to Khirbat en-Nahas, Jordan. September 24 – December 6, 2009. Principal Investigator and Co-Field Director.
- 2007–2004 Ethnoarchaeology research project in Tamil Nadu, India: Hereditary bronze caster community in Swamimalai; UC San Diego Expedition, role: PI
- 2006–2007 Edom Lowlands Regional Archaeology Project, Fall 2006 and Summer 2007. Role: Principal Investigator and Co-Director, UC San Diego Dept of Antiquities of Jordan expedition.
- 1999–2002 Excavation in Jabel Hamrat Fidan, Jordan. Pre-pottery Neolithic, Chalcolithic, Early Bronze II-IV and Iron Age sites. Role: Principal Investigator; UC San Diego Dept of Antiquities of Jordan expedition.
- 1997 Copper Age Donkey Caravan (Jordan-Israel) Expedition, National Geographic Society. Role: Principal Investigator.
- 1994–1996 Egyptian-Canaanite Interaction at Nahal Tillah, Northern Negev Desert, Israel. An NEH funded joint University of California, San Diego-Hebrew Union College, Expedition. Sponsored by the University of California, San Diego, Department of Anthropology, Judaic Studies Program, and Summer Session. Role: Principal Investigator.
- 1993 Excavations at Shiqmim, Northern Negev Desert, Israel. A joint University of California, San Diego – Hebrew Union College, Expedition, sponsored by the University of California Education Abroad Program. Role: Principal Investigator and Program Director.
- 1987 Excavations at the Gilat Chalcolithic cult site. Sponsored by the Nelson Glueck School of Biblical Archaeology, HUC-JIR,

- Jerusalem and the Israel Department of Antiquities and Museums. Role: Co-Director with Mr. David Alon.
- 1982–1984 Shiqmim Chalcolithic research expedition (Phase I). Sponsored by the Israel Department of Antiquities and Museums and the Negev Museum. Role: Principal Investigator.

**Nejvýznamnější organizované konference a sympozia (výběr)**

- 1993 *Archaeology in the Holy Land: New Approaches to the Past – The 1990s and Beyond*, held at the University of California, San Diego, January 28–31. Symposium organizer.
- 1998 *Egyptian – Canaanite Interaction During the Late 4th 3rd Millennium, BCE*. Nelson Glueck School of Biblical Archaeology, Jerusalem, Israel, April 13–16, 1998. Co-symposium organizer.
- 2004 *International conference on Radiocarbon Dating and the Iron Age Archaeology of the Levant*. Primary organizer, Oxford Centre for Hebrew and Jewish Studies, Sept. 6–10, 2004.
- 2006 *Biblical Archaeology and the Future*. Symposium to mark the inauguration of the Norma Kershaw Endowed Chair in the Archaeology of Ancient Israel and Neighboring Lands, UCSD, April 30, 2006; Symposium organizer.
- 2009 Theoretical Archaeology Group Meetings, Stanford University, May 1–3, 2009. Session organizer: *Changing models for understanding Biblical Edom: anthropology, environment and information technology*. Session organizer.
- 2012 *Social Theory and the Archaeology of the Ancient Near East*, 8th International Congress on the Archaeology of the Ancient Near East (ICAANE), April 30 – May 4, 2012, University of Warsaw, Poland. Session organizer, with Ianir Milevski.
- 2013 *Out of Egypt: Israel's Exodus between Text and Memory, History and Imagination*, International conference, May 31 – June 3, 2013, Qualcomm Institute, UC San Diego; Host and chief organizer.
- 2013 1st International Workshop on Virtual Archaeology – Museums & Cultural Tourism, Delphi, 40 Greece, 25–28 September; Transdisciplinary Research and Cyber-Archaeology Today: Toward the Museum of the Future, Session organizer.
- 2013 *Cyber-archaeology workshops with the American School of Classical Studies in Athens* (with Prof. J. Wright, Director)

- and Institute for Aegean Prehistory Center for East Crete (with Dr. T. Brogan).
- 2014 *Cyber-Archaeology in the Middle East Today*, Special Reception and Demos at UCSD Qualcomm Institute for ASOR Annual Meeting Participants, 20 November. Organizer.
- 2016 World Archaeology Congress, Kyoto, Japan, August 28 – September 2. *Cyber-Archaeology in Global Perspective* (with Maurizio Forte and Sarah Kinderdine).
- 2016 *Cyber-Archaeology in the Levant*, American Schools of Oriental Research (ASOR), Annual meetings.
- 2017 Scripps Center for Marine Archaeology Workshop, Scripps Institution of Oceanography – UC San Diego (with John Hildebrand), March 23.

## PROMOČNÍ FORMULE A SLIB DOKTORANDA

### Promotor:

Cōnsilium Facultātis philosophicae Ūniversitātis Carolīnae nōn ignōrāns, vir illūstrissime, tē et doctrīnā tuā, quam in archaeologiae quaestiōnēs perscrūtandās impendistī, et vītae tuae operibus necnōn āctibus, quibus patriae tuae atque tōtius mundi cōgnitiōnem et scientiam generī hūmānō maximē prōficuam amplificāvistī, dē salūte ūniversī generis hūmānī prae cēteris optimē meritum esse

commūnī omnium applausū dēcrēvit, ut in doctōrum philosophiae honōris causā numerum recipereris.

Quod ordinis nostrī cōnsultum cum ā cōnsiliō generālī Ūniversitātis Carolīnae cōfirmātum esset, tē, vir illūstrissime, petiimus, ut illum ūnum et summum honōrem, quem tibi Ūniversitās nostra impertire posset, in hōc sollemnī cōsessū acciperēs.

Prius autem spōnsiō sollemnis tibi suscipienda est.

### SPONDĒBIS IGITUR:

Prīmum tē huius Ūniversitātis, in quā hunc summum virī doctī gradum honōris ascenderis, piam perpetuō memoriā habitūrum eīque auctōritāte, auxiliō, cōsiliīs tuīs numquam dēfutūrum,

dein studia ūtilissima, sicut adhūc facere semper cōnsuēvistī, prōvehere nōn dēsītūrum, ut vērītās salūtem generis hūmānī continēns prōpāgētur et lūx eius terrārum orbem illūstret.

Haec tū ex animī tuī sententiā spondēbis ac pollicēberis?

### Doctor:

SPONDEŌ AC POLLICEOR

### Promotor:

Itaque iam nihil impedit, quōminus honōrēs, quibus tē ordō noster ornāre cupit, tibi impertiāmus.



Ergō ego, prōmōtor rīte cōstitūtus,

ex dēcrētō cōsiliī Facultātis philosophicae

tē, professōrem Thomam Evan Levy

virum doctissimum, quī dē Orientis Propinquī atque Aegyptī historiā trium millēniōrum Chrīstum nātum praecedentium indāgandā orbī terrārum optimē sis meritis,

PHILOSOPHIAE DOCTŌREM HONŌRIS CAUSĀ CREŌ,  
CREĀTUM RENUNTIŌ,

omnia philosophiae doctōris prīvilēgia in tē cōferō in eiusque rē fidem hoc diplōma Ūniversitātis Carolīnae sigillō maiōre īsignītum tibi in manūs trādō.

Decorēris etiam catēnā dēaurātā, quā vinculum tuum cum Ūniversitāte Carolīnā per omnēs annōs dūrātūrum apertē ac symbolicē significētur.

QUOD BONUM, FĒLĪX,  
FAUSTUM FORTŪNĀTUMQUE ÈVENIAT!

# TEXT DIPLOMU

Q.B.F.F.Q-S

NOS RECTOR ET ALMA ATQUE ANTIQUISSIMA LITTERARUM  
UNIVERSITAS CAROLINA  
LECTURIS SALUTEM

FEMINAS ATQUE VIROS IN COGNITIONE RERUM INDAGANDA SAGACISSIMOS  
OPERIBUSQUE SUIS PRAECIPUOS QUI AD DOCTRINAM EXCOLENDAM ET  
HUMANITATEM PROMOVENDAM MIRUM QUANTUM CONTULERUNT  
MAIORES NOSTRI HONORIBUS ACADEMICIS ORNARE CONSUEVERANT

HUNC MOREM SEQUENS CONSILIIUM FACULTATIS PHILOSOPHICAE  
UNIVERSITATIS CAROLINAE  
IN CONSESSU QUEM DIE XVIII MENSIS MAII ANNI MMXVII HABUIT

COMMUNI OMNIUM SENTENTIA DECREVIT  
UT VIR ILLUSTRISSIMUS

THOMAS EVAN LEVY

DE ORIENTIS PROPINQUI ATQUE AEGYPTI HISTORIA TRIUM MILLENIORUM  
CHRISTUM NATUM PRAECEDENTIUM INDAGANDA ORBI TERRARUM OPTIME MERITUS  
HONORIS CAUSA  
IN DOCTORUM PHILOSOPHICAE UNIVERSITATIS CAROLINAE NUMERUM RECIPERETUR

QUARE FACULTATIBUS UTENTES NOBIS A CIVITATE ACADEMICA TRIBUTIS  
NOS HUNC VIRUM PERILLUSTREM

DOCTOREM PHILOSOPHICAE CREAVIMUS CREATUMQUE RENUNTIAVIMUS

ATQUE OMNIA QUAE HUNC HONOREM SEQUUNTUR IURA ET PRIVILEGIA  
IN EUM CONTULIMUS

IN CUIUS REI FIDEM HASCE LITTERAS MAIORE UNIVERSITATIS CAROLINAE  
SIGILLO ROBORANDAS CURAVIMUS

DABAMUS PRAGAE DIE VI MENSIS APRILIS ANNI MMXVIII

DECANVS

RECTOR

PROMOTOR

## LAUDATIO DĚKANA FILOZOFICKÉ FAKULTY UK

Profesor Thomas Evan Levy se narodil 11. září 1953 v North Hollywood v Kalifornii ve Spojených státech amerických. Profesor Levy vyrostl v San Fernando Valley, kde si již ve věku teenagera mohl vyzkoušet první archeologické výzkumy, a to indiánských sídel v jedné ze čtvrtí Los Angeles zvané Pacific Palisades. Archeologie se mu stala celoživotní vášní. Jeho odborný zájem se přesunul do oblasti Levanty (dnešní území Izraele, Palestiny, Libanonu, Jordánska a Sýrie, v širším smyslu také Egypta a celého Východního Středomoří) a Indie, kam již téměř třicet let pravidelně cestuje za vykopávkami a další související vědeckou prací. Svého rozhodnutí nikdy nelitoval. Jak sám řekl: „Minulost je úžasná. Archeologii se věnuji již od střední školy a díky ní si každý den žiju svůj sen.“

Mateřskou institucí profesora Levyho je Kalifornská univerzita v San Diegu, kde působí jako Norma Kershaw profesor Archeologie starověkého Izraele a sousedních zemí. Profesor Levy je jednou z hlavních postav současného vědeckého bádání o několika zásadních tématech vztahujících se k vývoji civilizací. V první řadě jde o dobu vzniku prvních státních útvarů na konci 4. a počátku 3. tis. př. Kr. na Předním Východě. Z doby 3. tis. př. Kr. pochází i Levyho objev největšího zdroje mědi v celé oblasti ve Wádí Fejnán. Tento objev má obrovský dosah i pro poznání historie starověkého Egypta a mezinárodních obchodních vztahů dané doby. Jeho výzkumy ve Wádí Fejnán poskytly i zcela nové poznatky k formování civilizačních okruhů doby železné a počátku starověkého Izraele. V posledních letech se Levy intenzivně věnuje také práci v oblasti tzv. *cyberarchaeology*, tedy využívání nejnovějších hi-tech technologií pro dokumentaci archeologických výzkumů a jejich interpretaci. V neposlední řadě je třeba zmínit i intenzivní zájem Prof. Levyho o tzv. etnoarcheologii, především pokud se týká metalurgie mědi a jejích tradičních metod. Tyto výzkumy Levy prováděl zejména v Indii. Svým významem je Prof. Levy skutečně globálním vědcem, jehož práce, její teoretický přesah a výchova několika generací archeologů a odborníků na dobu starověku mají skutečně světový význam.

Profesor Levy spolupracuje již od počátku 21. století s Českým egyptologickým ústavem Filozofické fakulty UK v oblasti archeologie a kontaktů mezi starověkým Egyptem a Syropalestinou. K tomu přispěly zejména Levyho výzkumy v teritoriu Wádí Fejnán, kde jeho expedice objevila unikátní památky z doby 3. a 1. tis. př. Kr. Český egyptologický ústav se věnuje značně podobným tématům a rovněž české archeologické výzkumy v Abúsíru nabízejí významné paralely pro Levyho práci na Předním Východě jak v oblasti mezinárodního obchodu, tak v otázkách geneze prvních komplexních společností v 3. a 1. tis. př. Kr.

Ředitel Českého egyptologického ústavu, prof. Miroslav Bárta, přednášel jako host Thomase Levyho na Kalifornské univerzitě v San Diegu, stejně jako profesor Levy v Praze. Konečně několik studentů egyptologie v Praze se zúčastnilo výzkumů Prof. Levyho v Jordánsku jako součást své archeologické praxe. V neposlední řadě Levy a Bárta spolupracovali i na výzkumu moderní povahy Biblické archeologie v rámci publikace *Historical Biblical Archaeology and the Future. The New Pragmatism*, vydané v roce 2010. V poslední době se spolupráce soustředí na teorii přerušovaných rovnováh a její aplikaci v oborech jako jsou archeologie, egyptologie, historie a v neposlední řadě i bezpečnostní studie – i v návaznosti na zájem americké armády o tyto teorie a její konsekvence.

Kariéra Prof. Levyho není zdaleka u konce, přesto však je přehled jeho vědeckých expedic, organizovaných konferencí a ocenění velice dlouhý. Jeho bibliografie zahrnuje nespočet studií, monografií i editovaných sborníků pokrývajících prakticky každé významnější téma předovýchodní archeologie počínaje kulturami 4. a 3. tis. př. Kr., přes témata Starého zákona až po Dobu železnou. Levyho archeologické výzkumy a vědecká práce významně ovlivnily a nadále ovlivňují hned několik směrů bádání a měly zásadní vliv na generace badatelů.

Filozofická fakulta UK proto navrhla udělit profesoru Thomasovi E. Levymu titul *Doctor honoris causa*, a to za zásadní světový přínos k poznání dějin starověkého Předního Východu a Egypta v době 3.–1. tis. př. Kr.

**SLAVNOSTNÍHO CEREMONIÁLU  
VE VELKÉ AULE KAROLINA SE ÚČASTNÍ  
TITO ZÁSTUPCI UNIVERZITY KARLOVY**

Jeho Magnificence rektor UK

prof. MUDr. Tomáš Zima, DrSc.

Spectabilis děkan FF UK

doc. PhDr. Michal Pullman, Ph.D.

Honorabilis promotor

prof. PhDr. Miroslav Verner, DrSc.

a další čelní představitelé Univerzity Karlovy a jejích fakult.









# CURRICULUM VITAE

## AND JUSTIFICATION OF THE AWARD

### **Prof. Thomas Evan Levy**

Distinguished Professor of Anthropology, Norma Kershaw Chair  
in the Archaeology of Ancient Israel and Neighboring Lands  
University of California, San Diego

#### **Education**

B.A. Degree, Anthropology, University of Arizona, Tucson; Dean's Honor List, 1975

Ph.D. Degree, Archaeology and Prehistory, University of Sheffield, England, 1981

#### **Current status**

Distinguished Professor, Department of Anthropology;  
Director, Center for Cyber-Archaeology and Sustainability, California Institute of

Telecommunications and Information Technology (Calit2), Qualcomm Institute;

Director, UC San Diego Levantine Archaeology Laboratory;

Co-Director, Scripps Center for Marine and Environmental Archaeology, University of California, San Diego

#### **Membership**

American Academy of Arts & Sciences, Fellow Class of 2008

American Schools of Oriental Research (life member); 2015–2017 Chair, Committee on Archaeological Policy

Archaeological Institute of America (Academic Trustee & member of Governing Board), 2016–

Associate, Current Anthropology, 2000–

Explorers Club, Fellow Class of 2009–

Israel Exploration Society, member, 1980–

Israel Prehistoric Society, member, 1980–

The Biblical Colloquium West, founding member, 1997–2008

American Institute of Archaeology, member, 2000 -

Society of American Archaeology, member, 1992 -

#### **Awards**

1996 University of California Presidential Award for Excellence in Undergraduate Research

- 1997 Best Academic Book in Archaeology, Biblical Archaeology Society, for T. E. Levy (ed.) 1995, *The Archaeology of Society in the Holy Land*. London: Leicester University Press
- 1998 Irene Levi-Sala Book Prize in the Archaeology of Israel for best publication in category of “popular non-fiction books,” for *The Archaeology of Society in the Holy Land*. London: Leicester University Press
- 2003 American Schools of Oriental Research, P. E. MacAllister *Field Archaeology Award*
- 2006 Inaugural holder of the Norma Kershaw Endowed Chair in the Archaeology of Ancient Israel and Neighboring Lands, University of California San Diego; April 30, 2006 –
- 2007 Department of Antiquities of Jordan Publication Award for *Crossing Jordan – North American Contributions to the Archaeology of Jordan* (London: Equinox) by the Department of Antiquities of Jordan, presented at the 10th Annual Conference on the History and Archaeology of Jordan, George Washington University, Washington, D.C. by H.R.H. Princess Sumaya al-Bint Hassan of Jordan and Dr. Fawwaz al-Khraysheh, Director General, DOAJ; May.
- 2008 Elected Fellow to the American Academy of Arts & Sciences, Boston, MA
- 2009 Elected Fellow to the Explorers Club, Headquarters in New York
- 2011 Biblical Archaeology Society Publication Award, Best Scholarly Book on Archaeology, *Historical Biblical Archaeology and the Future – The New Pragmatism*, (London: Equinox)
- 2011 Lowell Thomas Award for ‘Exploring the World’s Greatest Mysteries’, The Explorers Club, October 15, St. Louis, Missouri
- 2013 Best Academic Article, Biblical Archaeology Society, October, Washington, DC
- 2015 Elected member, European Academy of Sciences and Arts, March, Salzburg, Austria
- 2016 CENIC (Corporation for Education Network Initiatives in California) Award for Innovations in Networking – Research Applications
- 2017 Faculty Research Lecturer Award, University of California San Diego, Academic Senate Committee on Senate Awards

### **Selected publications**

Howland, Matthew D., Ian W. N. Jones, Mohammad Najjar and Thomas E. Levy (2018). Quantifying the effects of erosion on archaeological sites with low-altitude aerial photography, structure from motion,

- and GIS: A case study from southern Jordan. *Journal of Archaeological Science* 90:62–70.
- Knabb, K. A., Erel, Y., Tirosh, O., Rittenour, T., Laparidou, S., Najjar, M. and Levy, T. E. (2016). Environmental impacts of ancient copper mining and metallurgy: Multi-proxy investigation of human landscape dynamics in the Faynan valley, southern Jordan. *Journal of Archaeological Science* 74, 85–101.
- Shaar, R., Tauxe, L., Ben-Yosef, E., Kassianido, V., Lorentzen, B., Feinberg, J. M. and Levy, T. E. (2015). Decadal-scale variations in geomagnetic field intensity from ancient Cypriot slag mounds. *Geochemistry, Geophysics, Geosystems*. 16(1), 195–214.
- Salamon, A., Ward, S., McCoy, F., Hall, J., and Levy, T. E. (2015). Inspired by a Tsunami? Earth Sciences Perspectives of the Exodus Narrative. In *Israel's Exodus in Transdisciplinary Perspective – Text, Archaeology, Culture and Geoscience*, edited by Levy, T. E., Schneider, T. and Propp, W. H. C., pp. 109–129. New York: Springer.
- Levy, T. E., and Jones, I. W. N., eds. (2018). *Cyber-Archaeology and Grand Narratives: Digital Technology and Deep-Time Perspectives on Culture Change in the Middle East*. New York: Springer.
- Levy, T. E., Schneider, T. and Propp, W. H. G. (Eds.) (2015). *Israel's Exodus in Transdisciplinary Perspective: Text, Archaeology, Culture, and Geoscience*. New York: Springer.
- Savage, S., and Levy, T. E. (2014). DAAHL – The Digital Archaeological Atlas of the Holy Land: A Model for Mediterranean and World Archaeology. *Near Eastern Archaeology* 77(3), 243–247.
- Gidding, A., Levy, T. E. and DeFanti, T. A. (2014). ArchaeoSTOR: The Development and Utilization of a Web-Based Database for the Field and Lab. *Near Eastern Archaeology* 77(33), 198–202.
- Smith, N. G., L. Passone, S. al-Said, M. al-Farhan, and T. E. Levy (2014). Drones in Archaeology: Integrated Data Capture, Processing, and Dissemination in the al-Ula Valley, Saudi Arabia. *Near Eastern Archaeology* 77 (3):176–181.
- Levy, T. E. (2014). Cyber-Archaeology – Special Issue: *Near Eastern Archaeology*, Guest editor T. E. Levy: American Schools of Oriental Research. 77: 162–255.
- Smith, N. G., Karasik, A., Narayanan, T., Olson, E. S., Smilansky, U. and Levy, T. E. (2014). The Pottery Informatics Query Database: A new method for mathematic and quantitative analyses of large regional ceramic datasets. *Journal of Archaeological Method and Theory*, 21(1), 212–250.
- Levy, T. E., Najjar, M., and Ben-Yosef, E. (2014). *New Insights into the Iron Age Archaeology of Edom, Southern Jordan – Surveys, Excavations and*

*Research from the Edom Lowlands Regional Archaeology Project (ELRAP)*.  
Cotsen Institute of Archaeology Press.

- Levy, T. E. and Stanish, C. S. (2013). Cyber-Archaeology and World Cultural Heritage: Insights from the Holy Land. *Bulletin of the American Academy of Arts & Sciences*. 27.
- Petrovic, V. A. Gidding, T., Wypych, F., Kuester, T. A. DeFanti, and T. E. Levy (2011). Dealing with Archaeology's Data Avalanche. *IEEE Computer*, 44(7), 56–60.
- Levy, T. E., T. Higham, C. Bronk-Ramsey, N. G. Smith, E. Ben-Yosef, M. Robinson, S. Munger, K. Knabb, J. Schultz, M. Najjar, and L. Tauxe (2008). High Precision Radiocarbon Dating and Historical Biblical Archaeology in Southern Jordan. *Proceedings of the National Academy of Sciences*, 105(43), 16460–16465.
- Levy, T. E., Levy, A., Sthapathy, R., Sthapathy, S., & Sthapathy, S. (2008), *Masters of Fire – Hereditary Bronze Casters of South India*. Bochum: German Mining Museum.
- Levy, T. E., and T. Higham (Eds.) (2005). *The Bible and Radiocarbon Dating: Archaeology, Text and Science*. London: Equinox. (Reprinted in 2014 by Routledge).
- Levy, T. E., Adams, R. B., Hauptmann, A. Prange, M., Schmitt-Strecker, S. and Najjar, M. (2002). Early Bronze Age Metallurgy: A Newly Discovered Copper Manufactory in Southern Jordan. *Antiquity*, 76(292), 425-437
- Levy, T. E., Anderson, J. D., Waggoner, M., Smith, N., Muniz, A. and Adams, R. B. (2001). Interface: Archaeology and Technology—Digital Archaeology 2001: GIS-Based Excavation Recording in Jordan. *The SAA Archaeological Record*, 1(3), 23–29.
- Levy, T. E. (Ed.) (1995). *The Archaeology of Society in the Holy Land*. Leicester University Press (London) and Facts on File (New York). [author or co-author of introduction and Nos. 74, 75 and 76].
- Witten, A. J., Levy, T. E., Ursic, J. and White, P. (1995). Geophysical Diffraction Tomography: New Views on the Shiqmim Prehistoric Subterranean Village Site (Israel). *Geoarchaeology*, 10(2), 97–118.
- Levy, T. E. (Ed.) (1987). *Shiqmim I—Studies Concerning Chalcolithic Societies in the Northern Negev Desert, Israel (1982–1984)*. British Archaeological Reports.

### **Field work**

- 2017 UCSD 3D Archaeology in Israel Expedition. Project role: PI; with Assaf Yasur-Landau and Erez Ben-Yosef, September.
- 2016 UCSD – University of the Aegean (Rhodes) Kastrouli Land and Sea Project, Greece. Project role: PI; with Ioannis

- Liritzis and Richard Norris (SIO-UC San Diego). July 19 – August 11.
- 2015 UCSD – Institut national des sciences de l'archéologie et du Patrimoine, Morocco Cyber-Archaeology Expedition to Ifrane, Anti-Atlas mountains, ancient Jewish community.
- 2014 UCSD Cyber-Archaeology Expedition to Iron Age Khirbat al-Jariya, Jordan: Project role: PI, August.
- 2012 Cyber-Archaeology Expedition to Madh al-Dahab Gold Mines and Umm Damman Copper Production Site, Saudi Arabia; King Abdullah University of Science and Technology (KAUST), Saudi Arabia, Project role: Co-Field Director. September 3 – 11.
- 2012 UCSD Edom Lowlands Regional Archaeology Project (ELRAP); Phase II expedition to Faynan; October 1 – November 24. Principal Investigator and Co-Field Director.
- 2011 UCSD Edom Lowlands Regional Archaeology Project (ELRAP); Phase II expedition to Faynan; September 24 – November 24. Principal Investigator and Co-Field Director.
- 2009 UCSD Edom Lowlands Regional Archaeology Project (ELRAP) expedition to Khirbat en-Nahas, Jordan. September 24 – December 6, 2009. Principal Investigator and Co-Field Director.
- 2007–2004 Ethnoarchaeology research project in Tamil Nadu, India: Hereditary bronze caster community in Swamimalai; UC San Diego Expedition, role: PI
- 2006–2007 Edom Lowlands Regional Archaeology Project, Fall 2006 and Summer 2007. Role: Principal Investigator and Co-Director, UC San Diego Dept of Antiquities of Jordan expedition.
- 1999–2002 Excavation in Jabel Hamrat Fidan, Jordan. Pre-pottery Neolithic, Chalcolithic, Early Bronze II-IV and Iron Age sites. Role: Principal Investigator; UC San Diego Dept of Antiquities of Jordan expedition.
- 1997 Copper Age Donkey Caravan (Jordan-Israel) Expedition, National Geographic Society. Role: Principal Investigator.
- 1994–96 Egyptian-Canaanite Interaction at Nahal Tillah, Northern Negev Desert, Israel. An NEH funded joint University of California, San Diego-Hebrew Union College, Expedition. Sponsored by the University of California, San Diego, Department of Anthropology, Judaic Studies Program, and Summer Session. Role: Principal Investigator.
- 1993 Excavations at Shiqmim, Northern Negev Desert, Israel. A joint University of California, San Diego – Hebrew

- Union College, Expedition, sponsored by the University of California Education Abroad Program. Role: Principal Investigator and Program Director.
- 1987 Excavations at the Gilat Chalcolithic cult site. Sponsored by the Nelson Glueck School of Biblical Archaeology, HUC-JIR, Jerusalem and the Israel Department of Antiquities and Museums. Role: Co-Director with Mr. David Alon.
- 1982–84 Shiqmim Chalcolithic research expedition (Phase I). Sponsored by the Israel Department of Antiquities and Museums and the Negev Museum. Role: Principal Investigator.

### **Congresses and symposia organized**

- 1993 *Archaeology in the Holy Land: New Approaches to the Past – The 1990s and Beyond*, held at the University of California, San Diego, January 28–31. Symposium organizer.
- 1998 *Egyptian – Canaanite Interaction During the Late 4th 3rd Millennium, BCE*. Nelson Glueck School of Biblical Archaeology, Jerusalem, Israel, April 13–16, 1998. Co-symposium organizer.
- 2004 *International conference on Radiocarbon Dating and the Iron Age Archaeology of the Levant*. Primary organizer, Oxford Centre for Hebrew and Jewish Studies, Sept. 6–10, 2004.
- 2006 *Biblical Archaeology and the Future*. Symposium to mark the inauguration of the Norma Kershaw Endowed Chair in the Archaeology of Ancient Israel and Neighboring Lands, UCSD, April 30, 2006; Symposium organizer.
- 2009 Theoretical Archaeology Group Meetings, Stanford University, May 1–3, 2009. Session organizer: *Changing models for understanding Biblical Edom: anthropology, environment and information technology*. Session organizer.
- 2012 *Social Theory and the Archaeology of the Ancient Near East*, 8th International Congress on the Archaeology of the Ancient Near East (ICAANE), April 30 – May 4, 2012, University of Warsaw, Poland. Session organizer, with Ianir Milevski.
- 2013 *Out of Egypt: Israel's Exodus between Text and Memory, History and Imagination*, International conference, May 31 – June 3, 2013, Qualcomm Institute, UC San Diego; Host and chief organizer.
- 2013 1st International Workshop on Virtual Archaeology – Museums & Cultural Tourism, Delphi, 40 Greece, 25–28 September; Transdisciplinary Research and Cyber-

- Archaeology Today: Toward the Museum of the Future, Session organizer.
- 2013 *Cyber-archaeology workshops with the American School of Classical Studies in Athens* (with Prof. J. Wright, Director) and Institute for Aegean Prehistory Center for East Crete (with Dr. T. Brogan).
- 2014 *Cyber-Archaeology in the Middle East Today*, Special Reception and Demos at UCSD Qualcomm Institute for ASOR Annual Meeting Participants, 20 November. Organizer.
- 2016 World Archaeology Congress, Kyoto, Japan, August 28 – September 2. *Cyber-Archaeology in Global Perspective* (with Maurizio Forte and Sarah Kinderdine).
- 2016 *Cyber-Archaeology in the Levant*, American Schools of Oriental Research (ASOR), Annual meetings.
- 2017 Scripps Center for Marine Archaeology Workshop, Scripps Institution of Oceanography – UC San Diego (with John Hildebrand), March 23.

## GRADUATION FORMULA AND OATH OF THE DOCTORANDUS

### Promotor:

Cōnsilium Facultātis philosophicae Ūniversitātis Carolīnae nōn ignōrāns, vir illūstrissime, tē et doctrīnā tuā, quam in archaeologiae quaestiōnēs perscrūtandās impendistī, et vītae tuae operibus necnōn āctibus, quibus patriae tuae atque tōtius mundi cōgnitiōnem et scientiam generī hūmānō maximē prōficuam amplificāvistī, dē salūte ūniversī generis hūmānī prae cēteris optimē meritum esse

commūnī omnium applausū dēcrēvit, ut in doctōrum philosophiae honōris causā numerum recipereris.

Quod ordinis nostrī cōnsultum cum ā cōnsiliō generālī Ūniversitātis Carolīnae cōfirmātum esset, tē, vir illūstrissime, petiimus, ut illum ūnum et summum honōrem, quem tibi Ūniversitās nostra impertire posset, in hōc sollemnī cōsessū acciperēs.

Prius autem spōnsiō sollemnis tibi suscipienda est.

### SPONDĒBIS IGITUR:

Prīmum tē huius Ūniversitātis, in quā hunc summum virī doctī gradum honōris ascenderis, piam perpetuō memoriā habitūrum eīque auctōritāte, auxiliō, cōsiliīs tuīs numquam dēfutūrum,

dein studiā ūtilissima, sicut adhūc facere semper cōnsuēvistī, prōvehere nōn dēsītūrum, ut vērītās salūtem generis hūmānī continēns prōpāgētur et lūx eius terrārum orbem illūstret.

Haec tū ex animī tuī sententiā spondēbis ac pollicēberis?

### Doctor:

SPONDEŌ AC POLLICEOR

### Promotor:

Itaque iam nihil impedit, quōminus honōrēs, quibus tē ordō noster ornāre cupit, tibi impertiāmus.



Ergō ego, prōmōtor rīte cōstitūtus,

ex dēcrētō cōsiliī Facultātis philosophicae

tē, professōrem Thomam Evan Levy

virum doctissimum, quī dē Orientis Propinquī atque Aegyptī historiā trium millēniōrum Chrīstum nātum praecedentium indāgandā orbī terrārum optimē sis meritis,

PHILOSOPHIAE DOCTŌREM HONŌRIS CAUSĀ CREŌ,  
CREĀTUM RENUNTIŌ,

omnia philosophiae doctōris prīvilēgia in tē cōferō in eiusque rē fidem hoc diplōma Ūniversitātis Carolīnae sigillō maiōre īsignītum tibi in manūs trādō.

Decorēris etiam catēnā dēaurātā, quā vinculum tuum cum Ūniversitāte Carolīnā per omnēs annōs dūrātūrum apertē ac symbolicē significētur.

QUOD BONUM, FĒLĪX,  
FAUSTUM FORTŪNĀTUMQUE ÈVENIAT!

# TEXT OF DIPLOMA

Q.B.F.F.Q.S

NOS RECTOR ET ALMA ATQUE ANTIQUISSIMA LITTERARUM  
UNIVERSITAS CAROLINA  
LECTURIS SALUTEM

FEMINAS ATQUE VIROS IN COGNITIONE RERUM INDAGANDA SAGACISSIMOS  
OPERIBUSQUE SUIS PRAECIPUOS QUI AD DOCTRINAM EXCOLENDAM ET  
HUMANITATEM PROMOVENDAM MIRUM QUANTUM CONTULERUNT  
MAIORES NOSTRI HONORIBUS ACADEMICIS ORNARE CONSUEVERANT

HUNC MOREM SEQUENS CONSILIIUM FACULTATIS PHILOSOPHICAE  
UNIVERSITATIS CAROLINAE  
IN CONSESSU QUEM DIE XVIII MENSIS MAII ANNI MMXVII HABUIT

COMMUNI OMNIUM SENTENTIA DECREVIT  
UT VIR ILLUSTRISSIMUS

THOMAS EVAN LEVY

DE ORIENTIS PROPINQUI ATQUE AEGYPTI HISTORIA TRIUM MILLENIORUM  
CHRISTUM NATUM PRAECEDENTIUM INDAGANDA ORBI TERRARUM OPTIME MERITUS  
HONORIS CAUSA  
IN DOCTORUM PHILOSOPHICAE UNIVERSITATIS CAROLINAE NUMERUM RECIPERETUR

QUARE FACULTATIBUS UTENTES NOBIS A CIVITATE ACADEMICA TRIBUTIS  
NOS HUNC VIRUM PERILLUSTREM

DOCTOREM PHILOSOPHICAE CREAVIMUS CREATUMQUE RENUNTIAVIMUS

ATQUE OMNIA QUAE HUNC HONOREM SEQUUNTUR IURA ET PRIVILEGIA  
IN EUM CONTULIMUS

IN CUIUS REI FIDEM HASCE LITTERAS MAIORE UNIVERSITATIS CAROLINAE  
SIGILLO ROBORANDAS CURAVIMUS

DABAMUS PRAGAE DIE VI MENSIS APRILIS ANNI MMXVIII

DECANVS

RECTOR

PROMOTOR

## SPEECH OF THE DEAN OF THE FACULTY OF ARTS

Professor Thomas Evan Levy was born on 11 September 1953 in North Hollywood, California, in the United States of America. Professor Levy grew up in San Fernando Valley, where as a teenager he experienced his first excavation – a Native American site in a district of Los Angeles called the Pacific Palisades. Archaeology remained his life-long passion. His professional interest focused on the region of the Levant (today's territory of Israel, Palestine, Lebanon, Jordan and Syria, and also Egypt and the entire East Mediterranean in the broader context) and India, which he has visited regularly for nearly thirty years in order to work on archaeological digs and carry out other related scientific work. He has never regretted his decision to focus on things that happened many lifetimes ago. "The past is a beautiful place," says Levy, "I've been doing archaeology since I was in high school, so I continue to live my dream every day."

Professor Levy's parent institution is the University of California in San Diego, where he holds the Norma Kershaw Chair in the Archaeology of Ancient Israel and Neighboring Lands. Professor Levy is a key figure in contemporary scientific research of several important topics related to the development of civilisations. This most importantly concerns the period of the origin of the first states from the end of 4000 BCE to the beginning of 3000 BCE in the Near East. Levy's discovery of the largest source of copper in the entire region in Wadi Feynan is dated to 3,000 BCE. This discovery also has an enormous impact on the knowledge of ancient Egypt and the international trade relations of this specific period. His research in Wadi Feynan has also resulted in completely new knowledge about the formation of civilizations in the Iron Age and the beginnings of ancient Israel. In recent years Levy has focused on the field of so-called *cyberarchaeology*, i.e., use of the most modern hi-tech technologies for documenting archaeological research and its interpretation. And we must further mention Professor Levy's intensive interest in so-called ethnoarchaeology, particularly with regard to copper metallurgy and its traditional methods. Levy has primarily carried out this research in India. Professor Levy is truly a scientist of global significance whose work, theoretical range and training of several generations of archaeologists and experts in ancient history is of worldwide importance.

Professor Levy has worked with the Czech Institute of Egyptology at the Faculty of Philosophy at Charles University in the field of archaeology and contact between ancient Egypt and Syropalestine since the beginning of the 21st century. Levy's research in the Wadi Feynan territory, where his expeditions discovered unique monuments dating to the period between

3000 BCE and 1000 BCE, has been a major contribution to this field. The Czech Institute of Egyptology carries out work on markedly similar topics and Czech archaeological research in Abusir also offers significant parallels for Levy's work in the Near East in the field of international trade and also in relation to the genesis of the first complex societies between 3000 BCE and 1000 BCE.

The Director of the Czech Institute of Egyptology, prof. Miroslav Bárta, has lectured as a guest of Thomas Levy at the University of California in San Diego, as Professor Levy has done in Prague, and several students of Egyptology in Prague have also participated in Prof. Levy's research in Jordan as part of their archaeological training. Finally, Levy and Bárta have also collaborated on research of the modern nature of Biblical archaeology within the terms of the publication titled *Historical Biblical Archaeology and the Future. The New Pragmatism*, which was published in 2010. Their collaboration has recently concentrated on the theory of punctuated equilibrium and its application in fields such as archaeology, Egyptology, history and also security studies – in relation to the interest of the American Armed Forces in these theories and their consequences.

Professor Levy's career is far from ending, however, the summary of his scientific expeditions, organised conferences and awards is very extensive. His bibliography includes numerous studies, monographs and edited collections covering practically every topic of importance on Near East archaeology, starting from the cultures of the period between 4000 BCE to 3000 BCE, through the topic of the Old Testament, to the Iron Age. Levy's archaeological research and scientific work has significantly affected and continues to affect several directions of research and has had a fundamental impact on a generation of scientists.

The Faculty of Philosophy at Charles University has therefore proposed that Professor Thomas E. Levy be awarded the title *Doctor honoris causa*, for his fundamental worldwide contribution to the knowledge of the ancient history of the Near East and Egypt during the period between 3000 BCE and 1000 BCE.

**THE AWARD CEREMONY IN THE CAROLINUM  
GREAT HALL WAS ATTENDED  
THE FOLLOWING  
CHARLES UNIVERSITY OFFICIALS**

His Magnificence Rector  
of Charles University

prof. MUDr. Tomáš Zima, MD., DSc.

Spectabilis Dean  
of the Faculty of Arts

doc. PhDr. Michal Pullman, Ph.D.

Honorabilis promotor

prof. PhDr. Miroslav Verner, DrSc.

and others top representatives of the Charles University and its faculties.

