

**The Mortimer and Raymond Sackler
Institute of Advanced Studies**

**Annual album
2015/2016**



The Mortimer and Raymond Sackler
Institute of Advanced Studies

המכון ללימודים מתקדמים
ע"ש מורטימר וריימונד סאקלר

Professor Marek Karliner, Director

פרופסור מרק קרלינר-מנחל

25 September 2016
MK- 2187

Dr. Raymond R. Sackler, Hon. KBE
One Stamford Forum
Stamford, Connecticut 06901-3431
U.S.A.

Dear Dr. Sackler,

I am delighted to present you with the new and exciting format of the Mortimer and Raymond Sackler Institute of Advanced Studies annual album for 2015/2016. In the album you will find the highpoints of our distinguished guests' visits: lectures and seminars, photos and detailed reports about their rich academic and leisure activities during their visits.

We were honored to host exceptional scholars with us; each of them is a leader in their respective field:

Geoffrey A. Khan, Asian and Middle Eastern Studies, University of Cambridge, UK
Michael Elowitz, Biology, Biological Engineering and Applied Physics, Caltech, USA
Martin A. Berger, Visual Culture and American Studies, University of California, Santa Cruz, USA
Victor Shrira, Applied Mathematics, Keele University, UK
Jenny Strauss Clay, Ancient Greek Literature and Religion, University of Virginia, USA
Pedro Antonio Valdes-Sosa, Neuroscience and Neuroinformatics, Cuban Neuroscience Center
Arjun G. Yodh, Research on the Structure of Matter, University of Pennsylvania, USA
Robert C. T. Parker, Ancient History, New College, Oxford University, UK
Christopher L. Tomlins, Law, University of California, Berkeley, USA
Jerry Jacobs, Sociology, University of Pennsylvania, USA
David Pine, Physics and Mathematics, New York University, USA

I would like to thank you again for your continuous support which enables us to bring these prominent scholars to TAU and strengthen our international connections and collaborations with the top-tier intellectuals and Universities of our time.

Sincerely,

Prof. Marek Karliner
Director, Mortimer and Raymond Sackler Institute of Advanced Studies

cc: Research authorities

Ms. Ronit Nevo, Administrative Director, IAS

Encl.

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<http://www.tau.ac.il/institutes/advanced/index.html>

THE MORTIMER AND RAYMOND SACKLER INSTITUTE OF ADVANCED STUDIES

Academic Year 2015 – 2016

Prof. GEOFFREY KHAN October 15 – 2015

Prof. MICHAEL ELOWITZ December 14 – 2015

Prof. MARTIN A. BERGER December 15 – 2015

Prof. VICTOR SHRIRA January 5 – 2016

Prof. JENNY STRAUSS CLAY February 20 – 2016

Prof. PEDRO ANTONIO VALDES-SOSA March 2 – 2016

Prof. ARJUN J. YODH March 5 – 2016

Prof. ROBERT C. T. PARKER March 13 – 2016

Prof. CRISTOPHER L. TOMLINS April 10 – 2016

Prof. JERRY JACOBS May 2 – 2016

Prof. DAVID PINE May 24 – 2016

PROFESSOR GEOFFREY A. KHAN



Prof. Geoffrey A. Khan, Sackler Scholar 2015/2016, is the Regius Professor of Hebrew since 2012 and Chairman of the Faculty Board, Faculty of Asian and Middle Eastern Studies, University of Cambridge, United Kingdom. He has been at Cambridge since 1983, first researching the Cairo Genizah manuscripts, then Reader in Semitic Philology, 1999-2002 and Professor of Semitic Philology, 2002-2012. Prof. Khan received his B.A. in Semitic Languages (Hebrew, Aramaic, Arabic, Akkadian, Ethiopic), School of Oriental and African Studies, University of London in 1980, and his Ph.D. in 1984, later published as *Studies in Semitic Syntax*, (Oxford UP, 1988). His honours include: Fellow, British Academy 1998. Honorary Fellow, Academy of the Hebrew Language 2011 and recipient of the Lidzbarski Gold Medal for Semitic philology, Deutsche Morgenländische Gesellschaft 2004.

He has a broad interest in all periods of the Hebrew language, which include philological and linguistic studies of Hebrew, Aramaic and Arabic. He is Editor-in-Chief, *Encyclopedia of Hebrew Language and Linguistics* (4 vols. Boston: Brill, 2013), which contains about 1,000 articles on all periods, traditions and methodological approaches to the Hebrew language. A concise overview of his work on Tiberian Masoretic tradition appears in *A Short Introduction to the Masoretic Hebrew Bible and its Reading Tradition* (Gorgias, Piscataway, 2nd edition, 2013). His interest in Aramaic focuses on the documentation of modern spoken forms of the language, including fieldwork on the many endangered dialects, which were originally spoken in northern Iraq, southeastern Turkey and western Iran. He also published work on medieval Arabic and the history of the Arabic language, in particular the development of Judaeo-Arabic at various historical periods, including the modern spoken varieties. He has been commissioned by Oxford University Press to prepare the *Oxford Grammar of Biblical Hebrew*, a revised and expanded version of Gesenius's *Hebrew Grammar* 28th edition.

Mortimer and Raymond Sackler Institute
of Advanced Studies

Department of Hebrew Culture Studies
Bible Program ; Semitic Languages Program



המכון ללימודים מתקדמים
ע"ש מורטימר וריימונד סאקלר
החוג ללימודי התרבות העברית
המגמה למקרא, המגמה לבלשנות שמית

פרופסור ג'פרי כאן

חקר העברית והשפות השמיות

הפקולטה ללימודי אסיה והמזרח התיכון, אוניברסיטת קיימברידג', אנגליה

Professor Geoffrey Khan

Hebrew & Semitic Studies Faculty of Asian and Middle Eastern Studies
University of Cambridge, England

Lecture | הרצאה

REMARKS ON THE VERBAL SYNTAX OF NEO-ARAMAIC

The lecture will be held on Wednesday,
4 November 2015, at 14:00, in room 496,
Gilman building,
Tel-Aviv University, Ramat-Aviv

ההרצאה תתקיים ביום רביעי, 4 בנובמבר
2015, בשעה 14:00, באולם 496,
בבניין גילמן למדעי הרוח,
אוניברסיטת תל-אביב, רמת-אביב

Lecture | הרצאה

KARAITE TRANSCRIPTIONS OF BIBLICAL HEBREW

The lecture will be held on Tuesday,
17 November 2015, at 12:15, in room 208,
Rosenberg School of Jewish Studies building,
Tel-Aviv University, Ramat-Aviv

ההרצאה תתקיים ביום שלישי, 17 בנובמבר
2015, בשעה 12:15, בחדר 208,
בבניין רוזנברג למדעי היהדות,
אוניברסיטת תל-אביב, רמת-אביב

כיבוד קל יוגש לפני ההרצאה | Light refreshments will be served before each lecture
<http://www.tau.ac.il/institutes/advanced/>



Prof. Geoffrey Khan and Prof. Marek Karliner -
Director of the Mortimer and Raymond Sackler Institute of Advanced
Studies



Prof. Geoffrey A. Khan at one of his lectures



THE LESTER AND SALLY ENTIN FACULTY OF HUMANITIES
 DEPARTMENT OF HEBREW CULTURE STUDIES
 Hebrew language, Semitic Linguistics, Bible, Talmud and ancient
 Jewish Literature, Kabbalah and Hasidism, Jewish Philosophy

הפקולטה למדעי הרוח ע"ש לסטר וסאלי אנטין
 החוג ללימודי התרבות העברית
 הלשון העברית, בלשנות שמית, מקרא, תלמוד
 וספרות העת העתיקה, קבלה וחסידות, פילוסופיה יהודית

January 3, 2016

Report on the Activities of Professor Geoffrey Khan Sackler Fellow, Fall 2015

Professor Geoffrey Khan was Sackler Fellow at the Department of Hebrew Culture Studies during the months of October- November 2015.

Geoffrey Khan is Regius Professor of Hebrew at the University of Cambridge, a fellow of the British Academy and an honorary fellow of the Academy of the Hebrew Language. Among the myriad roles Khan filled at the University of Cambridge, he was dean of the Faculty of Asian and Near Eastern Studies, which is one of the oldest and most prominent faculties of said university. Khan's stay at the Sackler Institute was meant to provide him with time to write, associate with different scholars from the Department of Hebrew Culture Studies (the Bible, Hebrew language and Semitic Linguistics Programs) and develop new directions for cooperation. According to Khan and according to our estimate as well, these goals were achieved in several ways:

First and foremost, Professor Khan is one of the greatest Semitic linguists of this generation and among the chief researchers of Hebrew, Aramaic and Arabic in the world. In this context, he gave an astounding lecture before the staff of the Hebrew language and Semitic Linguistics Programs and varied graduate students, whose topic was: REMARKS ON THE VERBAL SYNTAX OF NEO-ARAMAIC (held on November 4).

Professor Khan melds his genius as a linguist with historical insights about the Cairo Genizah and the essence of its discovery, also with Biblical scholarship and the pronunciation traditions of Tiberian Hebrew. In this particular context he gave another illuminating lecture entitled: KARAITE TRANSCRIPTIONS OF BIBLICAL HEBREW (held on November 17). Both lectures aroused a lively debate, comments and further discussions.



THE LESTER AND SALLY ENTIN FACULTY OF HUMANITIES
DEPARTMENT OF HEBREW CULTURE STUDIES
Hebrew language, Semitic Linguistics, Bible, Talmud and ancient
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הפקולטה למדעי הרוח ע"ש לסטר וסאלי אנטין
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Khan met with all the department's teachers along with various students. Thus, hatching future cooperation regarding the invitation to Tel-Aviv of Cambridge postdoctoral scholars, specializing in the subject of Karaite Bible transcriptions.

We hosted Geoffrey Khan and his wife Colette in myriad contexts, including our homes and trips to Tel-Aviv and other locations in Israel. The Sackler Institute kindly covered a meal with Staff and the couple in a Tel Aviv restaurant.

According to Geoffrey the time spent in the institute was one of the most wonderful experiences he has ever had among his many trips abroad, including those to the institutes of advanced studies in Jerusalem and Princeton to which he was invited in the past. The air of comradery, fruitful discourse and Tel-Avivian charm, inspired him and allowed for the closing of circles, the renewal of connections, the instigation of new ones with the scholars of Tel-Aviv and the contemplation of new work.

We wish to emphasize emphatically that there is none worthier than Professor Khan to serve as Sackler Fellow. We thank the members of the committee for not allowing us to miss the chance to invite this illustrious personality, who honored Tel-Aviv University with its presence and, indeed, contributed a great deal to strengthening the bonds between us and one of the most prestigious universities in the world.

Truly yours,

Professor Vered Noam, Head of the Department of Hebrew Culture Studies;
Professor Hezi Mutzafi, Hebrew Language program, the Department of Hebrew Culture Studies; Professor Meira Polliack, Head of Bible program, the Department of Hebrew Culture Studies.

PROFESSOR MICHAEL ELOWITZ



Prof. Michael Elowitz, Sackler Scholar 2015/2016, is an Investigator with the Howard Hughes Medical Institute and Professor of Biology, Biological Engineering and Applied Physics at Caltech. He received his PhD in Physics at Princeton in 1999, and did postdoctoral research at the Rockefeller University, before moving to Caltech in 2003.

Prof. Elowitz's laboratory uses synthetic biology, quantitative time-lapse movies, and mathematical modeling to understand the design principles of genetic circuits operating in cells and tissues, in systems ranging from bacteria to mammalian cells. He created the Repressilator, a synthetic oscillatory gene circuit that helped initiate the field of Synthetic Biology. He later showed how gene expression "noise" (inherent randomness) could be detected and quantified in living cells, and analyzed the ways that such noise enables critical cellular behaviors that would be difficult or impossible to implement without it. Recent work has focused on the design principles of eukaryotic signaling pathways. He is a Macarthur Fellow, and has received fellowships from the Packard and Searle Foundations, the Presidential Early Career Award in Science and Engineering, and the HFSP Nakasone Prize.

פרופסור מיכאל אלוביץ

המחלקות לביולוגיה, ביו - הנדסה ופיסיקה שימושית
המכון הטכנולוגי של קליפורניה, פסדינה, ארה"ב

Professor Michael Elowitz

Departments of Biology, Bioengineering and Applied Physics
California Institute of Technology, Pasadena, USA

הרצאה במסגרת פרס בינלאומי בביופיזיקה
ע"ש ריימונד ובברלי סאקלר

Lecture in the Framework of The Raymond and Beverly Sackler
International Prize in Biophysics

IT'S ABOUT TIME: TIME-BASED REGULATION IN LIVING CELLS

The lecture will be held on Tuesday,
15 December 2015, at 10:30,
Hall of Justice,
The Buchmann Faculty of Law,
Tel-Aviv University, Ramat-Aviv

ההרצאה תתקיים ביום שלישי,
15 בדצמבר 2015, בשעה 10:30,
באולם כס המשפט,
הפקולטה למשפטים ע"ש בוכמן,
אוניברסיטת תל-אביב, רמת-אביב

Life Sciences Faculty Seminar | סמינר הפקולטה למדעי החיים

DESIGN PRINCIPLES OF SIGNALING, MEMORY AND CELL FATE CONTROL CIRCUITS

The lecture will be held on Tuesday,
22 December 2015, at 15:00,
Hall 14, Britannia building,
Tel-Aviv University, Ramat-Aviv

ההרצאה תתקיים ביום שלישי,
22 בדצמבר 2015, בשעה 15:00,
באולם 14, בבניין בריטניה,
אוניברסיטת תל-אביב, רמת-אביב

Seminar | סמינר

NOTCH SIGNALING FROM THE BOTTOM UP

The seminar will be held on Wednesday,
6 January 2016, at 10:00,
room 03, Sherman building,
Tel-Aviv University, Ramat-Aviv

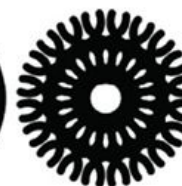
הסמינר יתקיים ביום רביעי,
6 בינואר 2016, בשעה 10:00,
חדר 03, בניין שרמן,
אוניברסיטת תל-אביב, רמת-אביב



Dr. David Sprinzak, Prof. Michael Elowitz, Dr. Avigdor Eldar and Prof. Daniel Chamovitz - Dean of the George S. Wise Faculty of Life Sciences



Prof. Michael Elowitz at one of his lectures



March 30th 2016

Visit of **Prof. Michael Elowitz**
Divisions of Biology, Bioengineering and Applied Physics
California Institute of Technology
And Howard Hughes Medical Institute

Sackler Lecturer, Dec. 14 – Jan. 8th, 2016

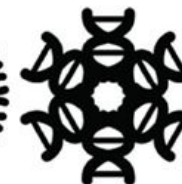
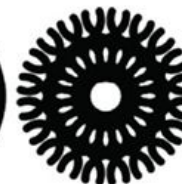
Report by
Department of Molecular Microbiology and Biotechnology and the department of
Biochemistry and Molecular Biology

Prof. Michael Elowitz, of the California Institute of Technology and the Howard Hughes Medical Institute is a world-leader in systems and synthetic biology, interested in the mechanisms and implication of cell-to-cell phenotypic variability and their relation with developmental differentiation and signaling.

Prof. Elowitz arrived at Tel Aviv University as a Sackler Lecturer of the Mortimer and Raymond Sackler Institute of Advanced Studies for 2015-2016. He arrived on Dec. 14th 2015 and stayed until Jan. 8th, 2016. His visit was dedicated to lectures and multiple meetings with researchers and students of the Faculty of Life Sciences and Faculty of Medicine, interested in microbiology, developmental biology and systems biology.

During the course of his visit, Prof. Elowitz presented three lectures:
The first lecture was given on Dec. 15th, as an invited speaker at the Sackler Biophysics Prize workshop at Tel Aviv University: IT'S ABOUT TIME: TIME-BASED REGULATION IN LIVING CELLS. The second was given on Dec. 24th as a Faculty of Life Sciences Seminar: DESIGN PRINCIPLES OF SIGNALING, MEMORY AND CELL FATE CONTROL CIRCUITS. The third was given on Jan. 6th: NOTCH SIGNALING FROM THE BOTTOM UP.

In addition to multiple meetings with his hosts, Dr. Avigdor Eldar and Dr. David Sprinzak, Prof. Elowitz had multiple meetings with researchers including Prof. Judith Berman, Dr. Adi Stern, Dr. Anat Herskovitz, Prof. Marcelo Elrich, Prof. Karen Avraham, Dr. Dinorah Friedmann-Morvinski, and Dr. Iftach Nachman.



The meetings have yielded possible future collaborations with Prof. Erlich, regarding their mutual interest on the BMP signaling pathway and with Dr. Dinorah Friedmann-Morvinski regarding tracking single cancer stem cells.

In addition, Prof. Elowitz was invited, as a Sackler lecturer, to lecture at the Technion, the Hebrew University and the Weizmann Institute of Sciences.

In summary, this visit was highly successful, and contributed significantly, not only from the scientific point of view, but also in strengthening the connections between Tel Aviv University and an internationally recognized leader scientist. Prof. Elowitz enjoyed very much his visit to Israel and the interaction with many researchers and students.

As former post-docs of Prof. Elowitz, we are grateful to the Sackler Institute for supporting Professor Michael Elowitz's fellowship in Tel Aviv. It was most rewarding for everyone concerned.

Respectfully,

Dr. Avigdor Eldar

avigdor eldar

Dr. David Sprinzak

D. Sprinzak

PROFESSOR MARTIN BERGER



Prof. Martin Berger, Sackler Lecturer 2015/2016 is Professor of History of Art and Visual Culture at the University of California, Santa Cruz. He graduated from Wesleyan University with a B.A. in English and Art History and received his Ph.D. in American Studies from Yale University. Before arriving at Santa Cruz in 2005, he taught at Northwestern University, University of North Carolina at Chapel Hill, State University of New York at Buffalo, and Yale. At Santa Cruz, he has served as Acting Dean of the Arts, Chair of the History of Art and Visual Culture Department, and founding Director of the Visual Studies Program.

Prof. Berger specializes in nineteenth- and twentieth-century U.S. art history, with a particular focus on the construction of gender and race. He has held fellowships at the National Humanities Center, Smithsonian Institution, Stanford Humanities Center, and the Sterling and Francine Clark Art Institute. He is the author of three books and an exhibition catalogue: *Man Made: Thomas Eakins and the Construction of Gilded Age Manhood* (2000), *Sight Unseen: Whiteness in American Visual Culture* (2005), *Seeing Through Race: A Reinterpretation of Civil Rights Photography* (2011), and *Freedom Now! Forgotten Photographs of the Civil Rights Struggle*.

Mortimer and Raymond Sackler Institute
of Advanced Studies

Department of Philosophy
The Zvi Yavetz School of Historical Studies
Faculty of Humanities



המכון ללימודים מתקדמים
ע"ש מורטימר וריימונד סאקלר
החוג לפילוסופיה
בית"ס להיסטוריה ע"ש צבי יעבץ
הפקולטה למדעי הרוח



פרופסור מרטין ברגר

החוג להיסטוריה של האמנות ותרבות ויזואלית, אוניברסיטת קליפורניה בסנטה קרוז

Professor Martin Berger

History of Art and Visual Culture Department, University of California, Santa Cruz

הרצאת "צהרי יום ג"
במסגרת בית"ס להיסטוריה

Guest Lecture
at the School of History

CIVIL RIGHTS PHOTOGRAPHY AND THE POLITICS OF RACE

ההרצאה תתקיים ביום שלישי,
29 בדצמבר 2015, בשעה 12:00,
בחדר 133, בבניין גילמן למדעי הרוח,
אוניברסיטת תל-אביב, רמת-אביב

The lecture will be held on Tuesday,
29 December 2015, at 12:00,
Gilman building, room 133
Tel-Aviv University, Ramat-Aviv

הרצאת אורח במסגרת
הקולוקוויום המחלקתי של החוג לפילוסופיה

Guest Lecture at the
Philosophy Department Colloquium

PHOTOGRAPHY AND THE LIMITS OF AFFECT

ההרצאה תתקיים ביום רביעי,
23 בדצמבר 2015, בשעה 16:00,
בחדר 449, בבניין גילמן למדעי הרוח,
אוניברסיטת תל-אביב, רמת-אביב

The lecture will be held on Wednesday,
23 December 2015, at 16:00,
Gilman building, room 449
Tel-Aviv University, Ramat-Aviv

כיבוד קל יוגש לפני כל אחת מן ההרצאות | Light refreshments will be served before each lecture
<http://www.tau.ac.il/institutes/advanced/>



Prof. Martin Berger and Prof. Iris Rachamimov



Prof. Martin Berger at one of his lectures



TEL AVIV UNIVERSITY
Pursuing the Unknown

LESTER AND SALLY ENTIN FACULTY OF HUMANITIES
DEPARTMENT OF HISTORY

הפקולטה למדעי הרוח ע"ש לסטר וסאלי אנטין
החוג להיסטוריה כללית

April 2, 2016

The Mortimer & Raymond Sackler
Institute of Advanced Studies
Tel Aviv University

Report on the visit of **Professor Martin A. Berger**

Dear Dr. Sackler,

It is our great pleasure to provide a brief report about the very successful series of lectures held in the end of December 2015 by Professor Martin A. Berger of the University of California, Santa Cruz. Professor Berger, Sackler Lecturer 2015/2016, was as a guest of the Department of Philosophy and of the School of Historical Studies. His hosts were Prof. Hagi Kenaan and Prof. Iris Rachamimov. Professor Berger is a renowned scholar of Visual Culture and American Studies, who has published four books that deal, among other things, with the ways social "sameness" and "otherness" are encoded and narrated visually; whether we are dealing with race, class, ethnicity or gender, photographs tell stories of "us" and "them".

His first lecture—entitled "Photography and the Limits of Affect"—was part of the Department of Philosophy colloquium and was widely attended by faculty and graduate students. The lecture dealt with the concept of "affect" which, in recent years, has become dominant in photographic theory. Prof. Berger focused on the prism opened by a discourse of affect as well as on the limitations and dangers that the narrowing down of meaning to affect may bring about. Discussion was very lively and Berger's thesis had a clear impact on its audience. His second lecture—



TEL AVIV UNIVERSITY
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LESTER AND SALLY ENTIN FACULTY OF HUMANITIES
DEPARTMENT OF HISTORY

הפקולטה למדעי הרוח ע"ש לסטר וסאלי אנטין
החוג להיסטוריה כללית

"Civil Rights Photography and the Politics of Race"—was part of the venerable "Tuesday Seminars" at the School of History and was also very-well attended. Based on the fruits of his two last books Prof. Berger asked a simple question: why the civil rights struggle in America is represented by a very limited number of photos that tell a uniform story despite the existence of millions of photographs that tell more complex stories? The answers he proposed engendered a very lively and fascinating discussion. In addition to these two main lectures Prof. Berger met with the Photolexic Research Group, which is organized by Ruthie Ginsburg at Tel Aviv University. They group read a writing sample then discussed US civil rights history and the use of photographs as evidence. There were about a dozen attendees, a mix of advanced graduate students and lecturers in history, art history, and literature.

We would like to thank wholeheartedly the academic committee the Mortimer & Raymond Sackler Institute of Advanced Studies for electing Professor Berger as a visiting lecturer. Our profound gratitude and appreciation is extended to the Sackler family for their support of this visit.

On behalf of the organizers
Yours sincerely

Iris Rachamimov

Professor Iris Rachamimov
The Department of History, Tel Aviv University
Editor, *Zmanim: A Historical Quarterly*

PROFESSOR VICTOR SHRIRA



Prof. Victor Shrira, Sackler Scholar 2015/16 and 2016/17, is Professor of Applied Mathematics at the School of Computing and Mathematics at Keele University, UK. He is also former Benson Ford Professor of Applied Mathematics in UCC, Cork, Ireland, and former leading scientist and Head of Group P. P. Shirshov, Institute of Oceanology Russian Academy of Sciences, Moscow. He was awarded the Medal for young scientists of the USSR Academy of Sciences for the best work in the fields of physical oceanography, physics of atmosphere, and geography (1986).

Prof. Shrira published more than a hundred refereed papers -- h-index 19, i10 index 37. He is the Editor of the journal *Nonlinear Processes in Geophysics* (since 1994) and serves as Reviewer for several journals such as the *Journal of Fluid Mechanics*, *Journal of Physics of Fluids*, *Physica D*, *Physical Review Letters*, *Physical Review E*, *Physics Letters A*, *Geophysical Research Letters*, *Journal of Geophysical Research: Oceans*, *Journal of Physical Oceanography*.

Prof. Shrira's research interests are nonlinear wave theory, wind waves, freak waves, wave turbulence, internal waves, wave-flow interactions, wave patterns, basic fluid dynamics, instabilities, remote sensing of sea surface and processes in the ocean interior, tsunamis. His research was supported by the EU and UK Research Councils, Royal Society, Irish foundation for Basic Research, US Office of Naval Research, etc.

פרופסור ויקטור שרירה

המחלקה למתמטיקה, אוניברסיטת קיל, בריטניה

Prof. Victor Shrira

Department of Mathematics, Keele University, United Kingdom

Lecture | הרצאה

MODELLING "FREAK WAVES" IN TRANSIENT SEA STATES FROM FIRST PRINCIPLES

Wind waves in seas and oceans are inherently random. For many engineering applications it is vital to predict probability density function (PDF) of surface elevations along with the basis meteorological forecasting. Despite huge advances in engineering anomalous or "freak" waves remain a major challenge for ships and offshore structures. Often for design one needs to know a priori the "100 year wave" or even the "1000 year wave". It is likely that special atmospheric conditions, e.g., rapid changes of wind, squalls, etc., affect the probability of anomalous waves; however the evolution of wave statistics of such transient sea states has never been studied. It is extremely difficult to study such transient processes in nature, while so far the modelling lacked the suitable tools. Here we present a mathematical model aimed at finding the wave height distribution for both steady and transient sea states from first principles.

At present the modelling of random oceanic wind waves is based upon the Hasselmann equation and/or its reductions. The Hasselmann equation assumes quasi-stationarity of the random wave fields under consideration. Rapid changes of wind are not uncommon in nature, however, how they affect wave evolution is practically unknown since the Hasselmann equation is invalid for such processes. Here we examine short-lived transient sea states caused by rapid changes of wind using the Generalized Kinetic Equation (GKE) which does not require the quasi-stationarity assumption. The evolution of the spectra, higher momenta and PDF are examined. The focus of the work is a detailed analysis of the fast evolution after an instant the higher change of forcing, and of the subsequent transition to the new quasi-stationary state of a wave field.

ההרצאה תתקיים ביום שני, 18 בינואר 2016, בשעה 15:00,
חדר 206, בניין וולפסון להנדסה מכנית,
אוניברסיטת תל-אביב, רמת-אביב

The lecture will be held on Monday, 18 January 2016, at 15:00,
room 206, Wolfson Mechanical Engineering Building
Tel-Aviv University, Ramat-Aviv



Prof. Victor Shrira, Prof. Lev Shemer and Dr. Yaron Toledo



Prof. Victor Shrira at his lecture

Report on the Activities of Professor Victor Shrira

Sackler Fellow, January 2016

During the first part of his visit (the next one will be on January 2017), Professor Shrira had long discussions with his colleagues from TAU on various topics of common interest. He also gave one lecture and two seminars:

Modelling "freak waves" in transient sea states from first principles – the lecture was intended for a general audience.

The seminar **HF radars: introduction into remote sensing of vertical shear of ocean surface currents by means of a single-frequency HF radar** and the seminar **On interplay of waves and turbulence in the oceanic mixed layer** were intended for a more specific audience.

Prof. Shrira had particularly long and productive discussions with my group. We discussed in great detail the new remarkable experimental results on the initial stage of wind generated growth in the situations of rapidly increasing wind. The discussions were concerned both with the development of the wave field and the drift currents. The discussions were very helpful for both sides and might result in a joint work, but no specific plans and commitments have been made yet.

Prof. Shrira had also numerous intense discussions with Dr. Yaron Toledo and his group, which were mutually beneficial and productive. They finished a joint paper and made specific plans for further joint efforts.

In addition Prof. Eliezer Kit invited Prof. Shrira to discuss the draft of his last paper – Prof. Shrira's opinion was sought on some specific points of the work and he was pleased he was able to help.

The very interesting discussions he had with Dr. Gregory Zilman opened his eyes to a possibility of a very different perspective on the problem of Rogue Waves in the ocean, one of the areas of Prof. Shrira's research interests in recent years. They have not drafted any immediate specific plans since more discussions and more preliminary work is needed, but a joint proposal is a likely perspective.

A brief but intense discussion with Dr. Eyal Heifetz (Department of Geosciences) revealed a lot of common interests and large potential for collaboration; however no specific plans have been drafted yet. It was agreed that they'll have more discussions in the second part of Prof. Shrira's visit.

According to Prof. Shrira he gained a lot from this visit and he was very impressed by the very diverse and exciting research carried out by his colleagues here at TAU, and he's looking forward for the second part of his fellowship.

We appreciate very much the support of the Sackler Institute that enabled this visit of Prof. Shrira that proved to be invaluable for so many researchers of the Tel-Aviv University as well as for Professor Shrira.

Sincerely,



Professor Lev Shemer

PROFESSOR JENNY STRAUSS CLAY



Prof. Jenny Strauss Clay, Sackler Lecturer 2013/2014, Willim R. Kenan Jr. Professor of Classics at the University of Virginia, was born in Cairo Egypt. She received her PhD at the University of Washington, taught at the University of California at Irvine, at Johns Hopkins University, and has been Visiting Professor at Duke and at the École des Hautes Études in Paris and the École Normale Supérieure in Lyon. She has held fellowships and research grants from the Center for Hellenic Studies, the National Endowment for the Humanities, the DAAD, the American Academy in Rome, the American School of Classical Studies in Athens as Whitehead Professor, and the Alexander von Humboldt Preis in Berlin.

Prof. Strauss Clay research interests focus mainly on Archaic Greek Poetry, on which she has published extensively, including four books: *The Wrath of Athena: Gods and Men in Homer's Odyssey* and *The Politics of Olympus: Form and Meaning in the Major Homeric Hymns*, *Hesiod's Cosmos*, and *Homer's Trojan Theater*. In addition, she has published over 60 articles on various aspects of Greek and Roman poetry.

Prof. Strauss Clay has lectured extensively both throughout the United States and Europe, including France, Germany, and Greece and has served as President of the Classical Association of the Mid-West and South, as well as the American Philological Association.

Mortimer and Raymond Sackler Institute
of Advanced Studies



המכון ללימודים מתקדמים
ע"ש מורטימר וריימונד סאקלר



פרופסור ג'ני שטראוס קליי

המחלקה ללימודים קלאסיים, אוניברסיטת וירג'יניה, ארה"ב

Prof. Jenny Strauss Clay

Department of Classics, University of Virginia, USA

הסמינר המחלקתי של החוג ללימודים קלאסיים | Department of Classics' Seminar

STRUCTURING COSMOGONY OR ARRANGING WOR(L)DS

The seminar will be held on Wednesday,
13 April 2016, at 18:00,
room 458, Gilman Building
Tel-Aviv University, Ramat-Aviv

הסמינר יתקיים ביום רביעי,
13 באפריל 2016, בשעה 18:00,
חדר 458, בניין גילמן,
אוניברסיטת תל-אביב, רמת-אביב

הרצאה | Lecture

HOMER WRITES ?!

The seminar will be held on Monday,
16 May 2016, at 18:00,
room 282, Gilman Building
Tel-Aviv University, Ramat-Aviv

ההרצאה תתקיים ביום שני,
16 במאי 2016, בשעה 18:00,
חדר 282, בניין גילמן,
אוניברסיטת תל-אביב, רמת-אביב

Light refreshments will be served before the lectures
| כיבוד קל יוגש לפני כל הרצאה
<http://www.tau.ac.il/institutes/advanced/>



Prof. Jenny Strauss Clay and Prof. Rachel Zelnick-Abramovitz



Prof. Jenny Strauss Clay at one of her lectures

אוניברסיטת תל-אביב TEL AVIV UNIVERSITY

THE LESTER AND SALLY ENTIN FACULTY OF HUMANITIES
DEPARTMENT OF CLASSICS

הפקולטה למדעי הרוח ע"ש לסטר וסאלי אנטין
החוג ללימודים קלאסיים

22.6.16

Report on the visit of Prof. Jenny Strauss Clay, Sackler Fellow 2015/2016

By Rachel Zelnick-Abramovitz
Chair, The Department of Classics,
The Lester and Sally Entin Faculty of Humanities

Professor Jenny Strauss Clay, Faculty of Classics at Oxford University, visited the Department of Classics as a Sackler Fellow in The Mortimer and Raymond Sackler Institute of Advanced Studies, between the 20th of February and the 20th of May 2016.

Prof. Clay is a leading scholar in ancient Greek literature and religion, is famous for her work on Homer's epics, the Homeric Hymns and Hesiod. Her books on the Homeric epics are ground breaking and have influenced research in this area. Her visit to Tel Aviv University, therefore, is an honor to the Department of Classics and to Tel Aviv University at large.

During her visit, Prof. Clay gave two lectures. The first, in the framework of the departmental seminar of the Department of Classics, was entitled "Structuring Cosmogony or Arranging Wor(1)ds" (held on April 13th). It discussed Hesiod's treatment of the stories about the monstrous creatures in the *Theogony*. The second lecture, "Homer Writes?" (held on May 16th) dealt with the controversial and fascinating topic of writing in Homer and the question of its use in the eighth-seventh century BCE. Both lectures, which attracted audience from various departments, were fascinating and raised lively discussions. The lectures were followed by dinners with faculty members of the Departments of Classics.

Prof. Clay was also invited by the Department of Classics in the Hebrew University of Jerusalem to give a lecture there. During her visit, I and Dr. Maayan Mazor of our department took her to Caesarea, a visit which she enjoyed very much. In addition Prof. Clay kindly agreed to conduct one meeting of my proseminar on Latin Poetry, which is one of the subjects she engages with in her research. This was an enormously enjoyable and successful meeting. The students and I learned a lot.

This was not the first visit of Prof. Clay to Israel, but for the first time she was a guest of our University. Her prowess and vast knowledge, which she liberally shared with scholars and students, and her warm and friendly personality made her visit to Tel Aviv University a success. Thank you very for enabling this stimulating and unforgettable visit.

Prof. Rachel Zelnick-Abramovitz

Rachel Zelnick-Abramovitz

PROFESSOR PEDRO ANTONIO VALDES-SOSA



Prof. Pedro Antonio Valdes-Sosa, Sackler Lecturer 2015/2016, is the General Vice-Director for Research of the Cuban Neuroscience Center, of which he was the co-founder in 1990. Since 2013 he is also a Distinguished Professor of Neuroinformatics at the University of Electronic Science and Technology of China. In 2015 he was awarded the "1000 talent foreign professorship" of China, and was designated as the Director of the Joint China-Cuba Laboratory for Frontier Research in Translational Neurotechnology. He is a senior professor of the Higher Institute for Medical Sciences, full member of the Cuban Academy of Sciences, full member of the Latin American Academy of Sciences and ex officio Program Chair of the Organization for Human Brain Mapping.

Prof. Valdes-Sosa studied medicine at the University of Havana and graduated in 1972. During his medical studies he was part of the team working developing ERP multivariate statistical software the first Cuban microcomputer (1970). He also got a B.Sc. in Mathematics in 1973. He obtained his Ph.D. in 1978. In 1979 he undertook his postdoctoral training on "Neurometrics and Computational Techniques" and "Biophysical Modeling of brain electrical activity" with Prof. E. Roy John at the Brain Research Lab of New York University USA. In 2011 Cuban National Science Degree Council granted him a Doctorate in Science as a Lifetime Achievement Award for his pioneering contribution to Quantitative, EEG and Neuroimaging.

Prof. Valdes-Sosa is the author of the VARETA and of MRI, EEG, MEG, and fMRI. His papers (more than 180 with H index of 42) have appeared in many of the major electrophysiological and neuroimaging. In the Proceedings of the IEEE in 2015 he published one of his most recent paper "Tensor Analysis and Fusion of Multimodal Brain Images", which for the first time introduced that Granger causal analysis of brain networks as a tensor regression problem, thus allowing the atomic decomposition of brain networks.

Mortimer and Raymond Sackler Institute
of Advanced Studies



המכון ללימודים מתקדמים
ע"ש מורטימר וריימונד סאקלר



פרופסור פדרו א' ולדז-סוסה

סגן מנהל כללי למחקר במרכז למדעי המוח, קובה
ראש המעבדה המשותפת סין-קובה למחקר פורץ דרך בנוירוסכנולוגיה תרגומית

Prof. Pedro A. Valdes-Sosa

General Vice-Director for Research, Cuban Neuroscience Center,
Head of the China-Cuban Joint Lab. for Frontier Research in Translational Neurotechnology

הרצאה | Lecture

DATA AND MODEL DRIVEN EEG/fMRI FUSION

Professor Valdes Sosa is an internationally renowned researcher in the field of neuroscience, specializing in human brain mapping and neuroinformatics. His work focuses on the development of quantitative EEG methods and systems for the diagnosis of brain disorders, especially involving statistical learning methods for diagnosis, new techniques for Electrophysiological Source Imaging, mesoscopic neural mass modeling of the EEG and fMRI and data driven and model driven EEG/fMRI fusion. He has developed various advanced modeling approaches such as the Variable Resolution Electromagnetic Tomography (VARETA) and the Granger causal analysis of brain networks as a tensor regression problem. He has been nationally and internationally acknowledged for his outstanding work and has published more than 180 papers in many of the major electrophysiological and neuroimaging journals.

ההרצאה תתקיים ביום ראשון,
6 במרץ 2016, בשעה 12:00,
חדר 214, בניין שרת למדעי החינוך,
אוניברסיטת תל-אביב, רמת-אביב

The lecture will be held on Sunday,
6 March 2016, at 12:00
room 214, Sharett Educational Sciences Building
Tel-Aviv University, Ramat-Aviv

כיבוד קל יוגש לפני ההרצאה | Light refreshments will be served before the lecture
<http://www.tau.ac.il/institutes/advanced/>



Prof. Talma Hendler, Prof. Pedro Antonio Valdes-Sosa and Neomi Singer



Prof. Pedro Antonio Valdes-Sosa at his lecture



המרכז לחקר תפקודי המוח תל אביב
Tel Aviv Center for Brain Functions

15 June 2016

Professor Marek Karliner, Director,
The Mortimer and Raymond Sackler Institute of Advanced Studies

Dear Prof. Karliner,

**Report on the visit of Professor Pedro Valdes-Sosa Sackler lecturer for the
academic year 2015/2016**

Prof. Pedro Antonio Valdes-Sosa is an internationally renowned researcher in the field of neuroscience and has established himself as a world leader in neuroinformatics. He is the cofounder and General Vice-Director for Research of the Cuban Neuroscience Center (CNEURO) in Playa, Havana City, Cuba and the director of China-Cuba Joint Laboratory for Frontier Research in Translational Neurotechnology at UESTC in Chengdu, China. CNEURO carries out basic research in Neuroinformatics, cognitive neuroscience, neurochemistry, develops and produces EEG systems and methods for use in public health, and coordinates the Cuban National Program for Neurotechnology. He has been a senior professor of the Higher Institute for Medical Science since 2008, is a full member of both the Cuban Academy of Science and the Latin American Academy of Science and an associate member of the International Center for Theoretical Physics. His work focuses on the development of quantitative EEG methods and systems for the diagnosis of brain disorders, especially involving statistical learning methods for diagnosis, new techniques for Electrophysiological Source Imaging, mesoscopic neural mass modeling of the EEG and fMRI and data driven and model driven EEG/fMRI fusion. He has developed various advanced modeling approaches such as the Variable Resolution Electromagnetic Tomography (VARETA) and the Granger causal analysis of brain networks as a tensor regression problem. He has been nationally and internationally acknowledged for his outstanding work on the modeling of EEG sources and has published more than 180 papers and over in many of the major electrophysiological and neuroimaging journals.

We were fortunate to have Prof. Valdes-Sosa in Tel Aviv on March 2-6.16. During his visit, he gave a fascinating lecture entitled: *'Data and Model driven EEG/fMRI fusion'* to a dedicated forum of scholars from the neuroimaging community at Tel-Aviv University. In his talk, he reviewed his



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The Wohl Institute for Advanced Imaging | Tel-Aviv Sourasky Medical Center | Affiliated to Tel-Aviv University





המרכז לתפקודי המוח תל אביב
Tel Aviv Center for Brain Functions

recent work and theoretical advancements about EEG source modeling and the fusion of fMRI and EEG brain imaging modalities.

Furthermore, we were able to make a significant progress with a joint project that has been initiated earlier this year between the labs of Prof. Pedro Valdes-Sosa and Prof. Talma Hendler with two additional distinguished scholars from McGill University in Canada who also visited in Tel-Aviv at that time.

The aim of this project is to develop and test a new EEG-neurofeedback (NF) approach for training self-regulation of the reward circuit via music as a possible non-pharmacological treatment for reward circuit disturbances (e.g., anhedonia, addiction, depression). During the visit, we were able to: (1) review data that has already been acquired (2) develop an analysis approach for a robust modeling of the activation of deep brain structures using EEG (3) initiate the writing of a grant proposal for the Human Frontiers Science Program (<http://www.hfsp.org/>).

Prof. Valdes-Sosa's visit was highly successful and fruitful, both by advancing the knowledge of scholars from Tel-Aviv University about advanced neuroimaging approaches and by making significant progress in a promising collaborative project between our labs.

I would like to thank the Mortimer and Raymond Sackler Institute of Advanced Studies for this wonderful opportunity which allows us to strengthen our connections with such a prominent scientist such as Prof. Valdes-Sosa.

Sincerely,

Talma Hendler, M.D., Ph.D.

Professor of psychiatry and psychology

School of Psychological Sciences, Sackler School of medicine and Sagol School of Neuroscience, Tel Aviv University

Director, Functional Brain Center, Wohl Institute for Advanced Imaging, Tel Aviv Sourasky Medical Center



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PROFESSOR ARJUN J. YODH



Prof. Arjun G. Yodh, Sackler Lecturer 2015/2016, is the James M. Skinner Professor of Science and the Director of the Laboratory for Research on the Structure of Matter (LRSM) at the University of Pennsylvania (Penn). His primary appointment at Penn is the Department of Physics and Astronomy. He holds a secondary appointment in the Department of Radiology in the School of Medicine and is a member of the Bioengineering Department Graduate Group in the School of Engineering and Applied Sciences at Penn. Finally, he is a member of several interdisciplinary institutes at Penn including the LRSM, the Institute of Medicine and Engineering (IME) and the Abramson Cancer Center. Prof. Yodh received his B.Sc. from Cornell University in 1981, and his Ph.D. from Harvard University in 1986. He joined the University of Pennsylvania faculty in 1988, following a two-year postdoctoral fellowship at AT&T Bell Laboratories.

Over the course of his career, Prof. Yodh's research includes work on fundamental and applied questions in condensed matter physics, biomedical optics and biophysics, optical physics, and atomic physics. His current research investigates soft materials, complex fluids and networks, carbon nanotubes, liquid crystals, optical microscopy & micromanipulation, laser spectroscopy, nonlinear optics, biomedical optics, diffuse optical functional imaging and spectroscopy of living tissues and photodynamic therapy. Specifically, Prof. Yodh's current research in Biophotonics is centered on the development of optical imaging and monitoring methods that probe tissues deep beneath the surface, i.e., where traditional optical methods such as microscopy do not work. These techniques use light diffusion models that permit separation of tissue scattering from tissue absorption and facilitate optical spectroscopy of deep tissues (and tomographic imaging).

Prof. Yodh carried out pioneering research on these problems when the field was in its infancy, and now he employs these rapid, non-invasive methods to image and track cancer and to monitor local vascular responses of healthy and injured brain. Prof. Yodh's research in Condensed Matter Physics is oriented towards soft materials, particularly complex fluids such as colloids, emulsions, liquid crystals, and mixtures thereof. He has made pioneering contributions to the measurement and control of entropic interactions in suspension, in studies of the Brownian dynamics of isotropic and anisotropic particles in isotropic/anisotropic fluids, per phase transition mechanisms in ordered or partially ordered soft materials, and, recently, in understanding the role of shape-dependent capillary interactions as pertains to deposition during drying (e.g., the coffee-ring effect).

פרופסור ארג'ון יוד

פרופסור ג'יימס סקינר למדעים, מנהל המעבדה למחקר מבנה החומרים
המחלקה לפיזיקה ואסטרונומיה, אוניברסיטת פנסילבניה, פילדלפיה, ארה"ב

Professor Arjun G. Yodh

James M. Skinner Professor of Science, Director, Lab. for Research on the Structure of
Matter (LRSM), Department of Physics and Astronomy
University of Pennsylvania, Philadelphia, USA

הרצאה | Lecture

BIOPHOTONICS WITH DIFFUSING LIGHT

Functional diffuse optical monitoring of tissue is gaining momentum as a diagnostic in a variety of medical scenarios including functional activation and clinical studies of brain, cancer imaging and cancer therapy monitoring, and investigation of muscle disease. I will review the general problem of spectroscopy and imaging with diffuse light. Then I will describe some recent biophotonics research from my lab that is oriented towards non-invasive monitoring of cerebral hemodynamics in adult/pediatric populations through intact skull and towards imaging cancer.

The lecture will be held on Sunday,
6 March 2016, at 14:15, room 315,
Multidisciplinary Research Building,
Tel-Aviv University, Ramat-Aviv

ההרצאה תתקיים ביום ראשון,
6 במרץ 2016, בשעה 14:15, חדר 315,
בבניין הרב תחומי למחקר בהנדסה ומדעים,
אוניברסיטת תל-אביב, רמת-אביב

הרצאה | Lecture

VARIATIONS ON THE COFFEE RING EFFECT: SHAPE DEPENDENT CAPILLARY INTERACTIONS

The famous "coffee ring" effect will be described, and then I will show how one can make the effect "disappear" by replacing colloidal spheres with ellipsoids in the drying droplet. The role of particle shape can be understood, at least partially, to be a result of capillary interactions which are comparatively strong for ellipsoids compared to spheres. Then I will discuss evaporation of colloidal droplets in confined geometries (i.e., rather than the sessile drops), which is influenced by the rigidity of monolayer particle membranes (and the effect of particle shape on this rigidity), and I will describe measurements of particle growth profiles at the drop edge which are sometimes described by KPZ models, depending on capillary interaction strength. If time is sufficient, I will describe related drying processes in colloidal droplets with surfactants.

The lecture will be held on Thursday,
10 March 2016, at 10:00, Ephraim Katzir
Biotechnology Club, Green Building,
Tel-Aviv University, Ramat-Aviv

ההרצאה תתקיים ביום חמישי,
10 במרץ 2016, בשעה 10:00,
מועדון אפרים קציר, בניין גרין לביוטכנולוגיה,
אוניברסיטת תל-אביב, רמת-אביב



Prof. Natan Tzvi Shaked, Prof. Abraham Katzir,
Dr. Yair Shokef, Prof. Arjun G. Yodh and Prof. Israel Gannot



Prof. Arjun G. Yodh at one of his lectures

June 15, 2016

Professor Marek Karliner, Director,
The Mortimer and Raymond Sackler Institute of Advanced Studies
Tel-Aviv University
Here

Dear Prof. Karliner,

Re.: Report on the visit of Professor Arjun Yodh, Sackler Lecturer 2015/2016

Prof. Arjun Yodh was a guest of Tel-Aviv University in March 2016. During his visit Prof. Yodh Arjun gave two seminars: *Biophotonics with Diffusing Light* in the Department of Biomedical Engineering (held on March 6), and *Variations on the Coffee Ring Effect: Shape Dependent Capillary Interactions* in the Biological and Soft Matter Seminar (held on March 10).

During His visit Prof. Yodh also met 17 Professors at Tel Aviv University, visited their labs and discussed mutual research interest. He met students from a few labs and helped them a lot with his advices and comments.

Prof. Yodh is a leader in two totally different research fields. He made extremely important contributions in the field of Biophotonics, especially in Diffused Optical Imaging. Besides basic scientific developments he has been very active in translational research where his findings are base for real clinical applications. On the other side, Prof. Yodh is working on some fundamental principles in the field of soft condensed-matter physics. His findings are published in leading scientific journals, however their application in the real world are yet to come.

In addition to the scientific interactions we had some social activities which were very enjoyable, mostly due to Prof. Yodh's very pleasant personality. Being such a versatile researcher with a charming nature allowed a fruitful and most rewarding visit to all participants. Prof. Yodh's stay at TAU can be summarized as an enormous success.

We thank the Mortimer & Raymond Sackler Institute of Advanced Studies for its full financial support of this visit. This wonderful endeavor contributes greatly to the science and education within the Tel-Aviv University community.

Sincerely,



Israel Gannot



Dr. Yair Shokef

PROFESSOR ROBERT C. T. PARKER



Prof. Robert C. T. Parker, Sackler Lecturer 2015/2016, is the Wykeham Professor of Ancient History, New College, Oxford University, United Kingdom since 1996. He has been a Fellow and Tutor in Greek and Latin Languages and Literature, Oriel College, Oxford University from 1976-1996. He was elected a Fellow of the British Academy, 1998.

Prof. Parker's research interests: ancient Greek society and religion from an anthropological perspective and Greek epigraphy. "I study Greek society from an anthropological perspective, in particular, I am interested in how the Greeks' thought and behavior was shaped by their religious beliefs. Of late I have been studying the interaction of Greek religion with other polytheistic systems, particularly in Asia Minor. Inscriptions are a prime source of evidence for me, and a great joy." His books include: *Miasma, Pollution and Purification in Early Greek Religion* (Oxford 1983, 2nd edition 1996), *Athenian Religion: a History* (1996), *Polytheism and Society at Athens* (Oxford 2005), and *On Greek Religion* (Cornell University Press 2011), and edited, *Personal Names in Ancient Anatolia*, (2013). He gave the Townsend lectures at Cornell in 2008 and the Sather lectures in Berkeley in 2013. At the moment he is working on the reception of Greek cults outside Greece, particularly in Anatolia.

פרופסור רוברט פארקר

פרופסור וייקהם של העת העתיקה, המחלקה ללימודים קלאסיים, אוניברסיטת אוקספורד

Prof. Robert Parker

Wykeham Professor of Ancient History, Faculty of Classics, University of Oxford

סמינר "צהרי יום ג'" במסגרת ביה"ס להיסטוריה

Tuesday Noon Seminar In the framework of the School of History

SYRIAN FESTIVALS IN HELLENISTIC THESSALY: FIRST THOUGHTS ON THE BOMBSHELL FROM MARMARINI (KERNOS 2015)

The seminar will be held on Tuesday,
15 March 2016, at 12:00,
room 458, Gilman building,
Tel-Aviv University, Ramat-Aviv

הסמינר יתקיים ביום שלישי,
15 במרץ 2016, בשעה 12:00,
חדר 458, בניין גילמן,
אוניברסיטת תל-אביב, רמת-אביב

Lecture | הרצאה

SEEKING THE ADVICE OF ZEUS AT DODONA

The lecture will be held on Wednesday,
16 March 2016, at 18:00,
room 282, Gilman building,
Tel-Aviv University, Ramat-Aviv

ההרצאה תתקיים ביום רביעי,
16 במרץ 2016, בשעה 18:00,
חדר 282, בניין גילמן,
אוניברסיטת תל-אביב, רמת-אביב



Prof. Rachel Zelnick-Abramovitz and Prof. Robert C. T. Parker



Prof. Jenny Strauss Clay and Prof. Robert C. T. Parker



Prof. Robert C. T. Parker at one of his lectures

אוניברסיטת תל-אביב TEL AVIV UNIVERSITY

THE LESTER AND SALLY ENTIN FACULTY OF HUMANITIES
DEPARTMENT OF CLASSICS

הפקולטה למדעי הרוח ע"ש לסטר וסאלי אנטין
החוג ללימודים קלאסיים

3 April 2016

Report on the visit of **Prof. Robert Parker**

By Rachel Zelnick-Abramovitz

Chair, Department of Classics,

The Lester and Sally Entin Faculty of Humanities

Prof. Robert Parker, Wykeham Professor of Ancient History, Faculty of Classics at Oxford University, visited the Department of Classics as a **Sackler Lecturer of The Mortimer and Raymond Sackler Institute of Advanced Studies**, between the 13th and the 20th of March 2017.

Prof. Robert Parker is one of the leading experts on ancient Greek religion; hence his coming to Tel Aviv University is of immense honor and a token of his recognition of the high academic reputation of Tel Aviv University at large, and of the Department of Classics in particular.

During his visit, Prof. Parker gave two lectures. The first, a seminar entitled "Syrian Festivals in Hellenistic Thessaly: First Thoughts on the Bombshell from Marmarini (Kernos 2015)", was given within the frame of the School of History. It discussed an intriguing Greek inscription found in Thessaly (in North-East Greece), which records regulations for the cult of an unnamed Goddess, but also mentions – very surprisingly – two Semitic cults. The second lecture, "Seeking the Advice of Zeus at Dodona", given within the frame of the Department of Classics Seminars, presented and discussed questions and requests addressed to the Oracle of Zeus at Dodona, found on lead tablets. Both lectures, which attracted audience from various departments, were fascinating and raised lively discussions.

אוניברסיטת תל-אביב TEL AVIV UNIVERSITY

THE LESTER AND SALLY ENTIN FACULTY OF HUMANITIES
DEPARTMENT OF CLASSICS

הפקולטה למדעי הרוח ע"ש לסטר וסאלי אנטין
החוג ללימודים קלאסיים

The lectures were followed by dinners with faculty members of the Departments of Classics, General History and Jewish History. Prof. Parker also visited archaeological and other sites in Israel, guided by colleagues from our department and from Ben Gurion University. He enjoyed these trips very much and expressed his wish to visit Israel again.

Prof. Parker also met with graduate and postgraduate students from our department and that of General History. He generously and patiently listened to them and discussed with them their researches.

Prof. Parker's expertise, which he liberally shared with students and scholars, and his warm and friendly personality made his visit to Tel Aviv University a success. Thank you for enabling this stimulating and unforgettable visit.

Prof. Rachel Zelnick-Abramovitz

Rachel Zelnick-Abramovitz

PROFESSOR CHRISTOPHER L. TOMLINS



Prof. Christopher L. Tomlins, Sackler Scholar 2015/2016, is Professor of Law, University of California Berkeley (from July 2014), and Affiliated Research Professor, American Bar Foundation, Chicago. From 2009-2014 he was Chancellor's Professor of Law at the University of California Irvine, where he also enjoyed courtesy appointments in History, English, and Criminology, Law and Society. Earlier appointments include La Trobe University, Melbourne, and the American Bar Foundation, Chicago. Prof. Tomlins holds an M.A. and a Ph.D. in History from Johns Hopkins (1977, 1981), B.A. and M.A. in Politics, Philosophy, and Economics from Oxford (1973, 1977) and an M.A. in American Studies from the University of Sussex (1974). Recent visiting positions include Distinguished Visiting Professor, University of Technology Sydney 2013. Visiting Professorial Fellow, Institute for Advanced Studies, The Hebrew University of Jerusalem 2008. Visiting Professor, Global Law Program, University of Haifa 2010. Visiting Professor, Buchmann Faculty of Law, Tel Aviv University 2002, 2005.

Prof. Tomlins' research concentrates on Anglo-American legal history from the sixteenth to the twentieth centuries. He has published the following books: *Freedom, Bound: Law, Labor, and Civic Identity in Colonizing English America, 1580-1865* (Cambridge and New York: Cambridge University Press, 2010). *Law, Labor, and Ideology in the Early American Republic* (Cambridge and New York: Cambridge University Press, 1993), recipient: best book published in the field of legal history 1992-93) and *The State and the Unions: Labor Relations, Law, and the Organized Labor Movement in America, 1880-1960* (New York and Cambridge: Cambridge University Press, 1985, reprinted 2010). His books have won the Littleton-Griswold Prize of the American Historical Association, the Hurst Prize of the Law and Society Association (twice), the Reid Prize of the American Society for Legal History, and the Bancroft Prize of the Trustees of Columbia University. He has also edited *The Cambridge History of Law in America*, 3 volumes (Cambridge and New York: Cambridge University Press, 2008) [with Michael Grossberg]. *The Supreme Court of the United States: The Pursuit of Justice* (Boston and New York: The Houghton Mifflin Company, 2005). *The Many Legalities of Early America* (Chapel Hill: University of North Carolina Press, 2001) [with Bruce H. Mann]. *Labor Law in America: Historical and Critical Essays* (Baltimore: The Johns Hopkins University Press, 1992) [with Andrew J. King]. and *Law and History in Australia* (Bundoora: published by the Australian Law and History Conference, 1983) [with Ian W. Duncanson].

Recent professional activities include: Scholar-Advisor to the American Bar Association Division of Public Education Project, Civility and Free Expression in a Constitutional Democracy - A National Dialogue (part of the National Endowment for the Humanities program, Bridging Cultures), Editor, *Cambridge Historical Studies in American Law and Society* (monograph series, for Cambridge University Press), 1994- , Co-editor, *Cambridge New Histories of American Law* (monograph series, for Cambridge University Press) [with Michael Grossberg], 2008-, Organizer, University of California Irvine School of Law biennial *Law As...* symposia (2010, 2012, 2014)

Mortimer and Raymond Sackler Institute
of Advanced Studies
The David Berg Foundation Institute
for Law & History
The Buchman Faculty of Law



המכון ללימודים מתקדמים
ע"ש מורטימר וריימונד סאקלר
המכון למשפט והיסטוריה
ע"ש קרן דייד ברג
הפקולטה למשפטים ע"ש בוכמן



פרופסור כריסטופר טומלינס

בית הספר למשפטים, אוניברסיטת קליפורניה
ברקלי, ארה"ב

Professor Christopher Tomlins

Berkeley Law, University of California
Berkeley, U.S.A

הרצאה | Lecture

THE WORK OF DEATH: MASSACRE AND RETRIBUTION IN SOUTHAMPTON COUNTY, VIRGINIA, AUGUST 1831

The lecture will be held on Wednesday
18 May 2016, at 18:00
Room 307, Buchmann Faculty of Law
Tel-Aviv University, Ramat-Aviv

ההרצאה תתקיים ביום רביעי
18 במאי 2016, בשעה 18:00
חדר 307, הפקולטה למשפטים ע"ש בוכמן
אוניברסיטת תל-אביב, רמת-אביב

Light refreshments will be served before the lecture
| כיבוד קל יוגש לפני ההרצאה
<http://www.tau.ac.il/institutes/advanced/>



Prof. Chris L. Tomlins and Prof. Assaf Likhovski



Prof. Chris L. Tomlins at his lecture



Professor Marek Karliner
Director, The Mortimer and Raymond Sackler Institute of Advanced Studies
Tel Aviv University

May 25, 2016

Dear Professor Karliner:

Re: Report on the Visit of Professor Christopher Tomlins, Sackler Fellow 2015/2016

Professor Christopher Tomlins, appointed as a Sackler Fellow for 2015/2016, is a legal historian teaching at the University of California-Berkeley Law School. He is considered by many to be the leading legal historian in the United States today.

Professor Tomlins was trained as a historian at The Johns Hopkins University, and his teaching career began in 1980 at La Trobe University, Melbourne, where he was successively Lecturer, Senior Lecturer, and University Reader in Legal Studies. In 1992 Tomlins joined the research faculty of the American Bar Foundation, Chicago, where he remained until 2009, when he became Chancellor's Professor of Law at the University of California, Irvine, moving to Berkeley in 2014.

His books include *Freedom Bound: Law, Labor and Civic Identity in Colonizing English America, 1580-1865* (2010); *Law, Labor and Ideology in the Early American Republic* (1993); and *The State and the Unions: Labor Relations, Law, and the Organized Labor Movement in America, 1880-1960* (1985). He is also editor, with Michael Grossberg, of *The Cambridge History of Law in America*, 3 volumes (2008); with Bruce H. Mann, of *The Many Legalities of Early America* (2000); with Andrew J. King, of *Labor Law in America: Historical and Critical Essays* (1992); and with Ian W. Duncanson, of *Law and History in Australia* (1983). He is sole editor of *The Supreme Court of the United States: The Pursuit of Justice* (2005). Other publications include some 200 chapters, articles, editorial essays, reviews, and working papers.

Tomlins has been the editor of the leading legal history periodical, *Law and History Review* (1995-2004), as well as another leading law and society periodical, *Law and Social Inquiry* (2005-09). Currently he is academic editor of two Cambridge University Press book series: *Cambridge Historical Studies in American Law and Society*, and (with Michael Grossberg) *New Histories of American Law*.

Tomlins' scholarly work has been awarded the Surrency prize of the American Society for Legal History, the Littleton-Griswold prize of the American Historical Association, the John Phillip Reid prize of the American Society for Legal History, the James Willard Hurst prize of the Law and Society Association (twice), and the Bancroft Prize, awarded each year by the trustees of Columbia University (which is considered the most prestigious prize history generally, not just legal history).

Professor Tomlins' visit to Israel took place between April 10, 2016 and May 19, 2016. During his visit, professor Tomlins participated in the following activities:

1. Junior Scholars Workshop (April 20-21, 2016).

In this workshop, organized by the David Berg Foundation Institute for Law and History at TAU, eight young legal historians – doctoral students, post-docs and lecturers (from Tel Aviv University, Haifa University, the Hebrew University of Jerusalem, as well as Harvard University and Moscow State University) presented papers based on their current research projects. Each paper was assigned a senior Israeli legal historian as commentator. In addition, Professor Tomlins commented on all the papers, and also gave a talk on publishing legal history works based on his long experience as the academic editor of some of the leading publications in legal history in the United States.

2. Lecture for Students: “The Guilt of Fragile Sovereigns’: Tyranny, Intrigue and Martyrdom in an Unchanging Regime (Virginia, 1829-1832)”

On May 16, 2016, Professor Tomlins delivered a special lecture, based on a paper circulated in advance of the talk, to a group of TAU LL.B. and graduate students with a special interest in legal history. The talk was based on his current research project - a study of the Nat Turner Slave Rebellion, which occurred in 1831 in Virginia. In this talk professor Tomlins discussed the rebellion as an example of an attempt of political regime change in Virginia.

3. Public Lecture: “The Work of Death: Massacre and Retribution in Southampton county, Virginia, August 1831”

On May 18, 2016, Professor Tomlins delivered a public lecture, also based on his current research on the Turner rebellion, focusing on aspects of the use of violence during the rebellion, and their meaning and relationship to law. The talk was attended by about forty faculty members and students from the TAU Faculty of Law, TAU Faculty of Humanities, and students and faculty members from other Israeli institutions.

In addition to these events, Professor Tomlins conducted a large number of individual meetings with our faculty members and graduate students, as well as faculty members and graduate students from other law schools and history departments in Israeli universities.

We believe that Professor Tomlins' succesful visit to Israel greatly strengthened the ties of the Israeli legal history community with Tomlins specifically and through him with the community of American legal historians. We would like to thank the Mortimer and Raymond Sackler Institute of Advanced Studies for its generous support.

Sincerely,

A handwritten signature in blue ink, reading "Assaf Likhovski". The signature is written in a cursive, flowing style.

Professor Assaf Likhovski
Tel Aviv University Faculty of Law

PROFESSOR JERRY A. JACOBS



Prof. Jerry A. Jacobs, Sackler Lecturer 2015/2016 is Professor of Sociology at the University of Pennsylvania, where he has taught since earning his Ph.D. in sociology at Harvard in 1983. He served as Editor of the American Sociological Review from 2004-2006, and has served as President of the Eastern Sociological Society and Co-President of Sociologists for Women in Society. In 2012, he served as Founding President of the Work and Family Researchers Network, an interdisciplinary and international scholarly association that focuses on work and family issues. His leadership in the work-family area was recognized with the Work-Life Legacy Award in 2014.

Prof. Jacobs' research with Kathleen Gerson was honored with the Rosabeth Moss Kanter Award for Excellence in Work-Family Research in 2002, and led to the publication of *The Time Divide: Work, Family and Gender Inequality*, published by Harvard University Press in 2004. His numerous books, edited volumes, journal articles and book chapters have addressed various aspects of women's employment, including authority, earnings, working conditions, part-time work and work-family conflict, and entry into male-dominated occupations. Specific studies have targeted women physicians, academics, managers and welfare recipients. His current projects include an experimental survey of attitudes toward the employment of parents of young children, an historical study of women's entry into STEM fields, and an investigation of the future of work. His book on interdisciplinary, *In Defense of Disciplines: Interdisciplinary and Specialization in the Research University*, was published in 2013 by the University of Chicago Press.



פרופסור ג'רי ג'ייקובס

המחלקה לסוציולוגיה, אוניברסיטת פנסילבניה, פילדלפיה, פנסילבניה, ארה"ב

Professor Jerry A. Jacobs

Department of Sociology, University of Pennsylvania, Philadelphia, Pennsylvania, USA
Former Editor of American Sociological Review

הרצאה | Lecture

THE JOBLESS FUTURE REVISITED: TECHNOLOGY AND EMPLOYMENT IN THE AGE OF SMARTPHONES, BIG DATA AND ARTIFICIAL INTELLIGENCE

Reports arrive nearly every day heralding the latest technological advances, from self-driving cars to robotic surgery to the virtual classroom. Will these technologies so thoroughly displace human workers that the link between employment and income needs to be reassessed? In this lecture, Jacobs offers a framework for analyzing the prospects of job gains and losses in particular industries and occupations, and illustrates these ideas with a set of contemporary and historical case studies.

ההרצאה תתקיים ביום חמישי,
5 במאי 2016, בשעה 14:00, בחדר 527
בניין נפתלי, הפקולטה למדעי החברה
אוניברסיטת תל-אביב, רמת-אביב

The lecture will be held on Thursday,
5 May 2016, at 14:00, in room 527
Naftali Building of Social Sciences
Tel-Aviv University, Ramat-Aviv



Prof. Noah Lewin-Epstein, Prof. Jerry A. Jacobs,
Dr. Hadas Mandel and Prof. Moshe Semyonov



Prof. Jerry A. Jacobs at his lecture



THE GERSHON H. GORDON FACULTY OF SOCIAL SCIENCES
DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY

הפקולטה למדעי החברה ע"ש גרשון גורדון
החוג לסוציולוגיה ואנתרופולוגיה

**Summary Report of the Visit of Professor Jerry Jacobs
Sackler Lecturer for the academic year 2015/2016**

Professor Jerry Jacobs, Professor of Sociology at the University of Pennsylvania, was invited by the Sackler Institute for Advanced Studies as a visiting scholar with the Departments of Sociology and the Department of Labor Studies on May 2nd to May 16th, 2016. During his visit Professor Jacobs gave a major lecture, met and interacted with graduate students and faculty members.

The lecture: *The Jobless Future Revisited: Technology and Employment, in the Age of Smartphones, Big Data and Artificial Intelligence* focused on the future of work. The presentation was wide-ranging and introduced to those unfamiliar with the topic a number of debates about technological change, robotics, and the prospects for widespread technologically-driven job displacement. The discussion that followed the lecture was illuminating and intellectually stimulating.

Professor Jacobs met with a large number of graduate students. With one group of students he discussed strategies for publishing research papers, especially in top-tier American sociology journals. The advice provided by Jacobs was based on his experience as the Editor of the American Sociological Review (the leading Journal in the field). In addition, Professor Jacobs had a series of meetings with graduate students with whom he had detailed discussions about topics of dissertations, data and methodologies for data analysis.

Professor Jacobs had multiple meetings with faculty members from the Department of Sociology and the Department of Labor Studies. These meetings were devoted to professional questions and discussions in areas that Professor Jacobs shares with researchers in Tel Aviv University, especially in the areas of work and family and the intersection between work and family. Following the meetings a series of possible areas for future collaboration were discussed.

Hadas Mandel

קרית האוניברסיטה, רמת-אביב, ת.ד. 39040, תל-אביב 6997801, טל' 03-6409734, פקס' 03-6409215

TEL AVIV UNIVERSITY, RAMAT AVIV, P.O.B 39040, TEL AVIV 6997801, ISRAEL: TEL. 972-3-6409734, FAX. 972-3-6409215

PROFESSOR DAVID J. PINE

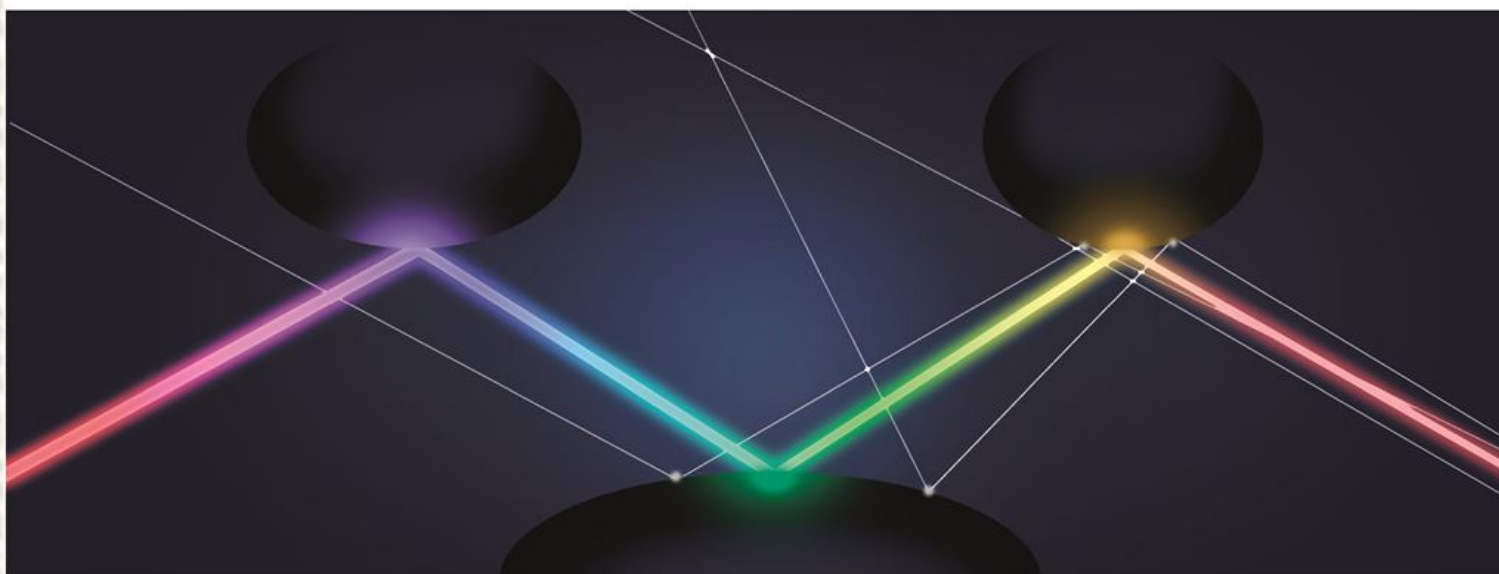


Prof. David J. Pine, Sackler Lecturer 2015/2016 serves as Professor of Physics, as well as of Mathematics, at New York University, since 2005. He has been honored as a Silver Professor since 2013, serves as Chair of NYU's Department of Chemical & Biomolecular Engineering since 2014, and as Fellow Professor at Sungkyunkwan University, in South Korea, since 2012. Prof. Pine graduated from Wheaton College in 1975 with a degree in Physics and Mathematics, before earning his Ph.D. in Physics from Cornell University in 1982.

Previously, Prof. Pine held a distinguished position as Professor of Chemical Engineering and of Materials at the University of California, Santa Barbara, from 1995-2005. He also served as Chair of the Department of Chemical Engineering at the University of California from 2001-2004. Among other appointments, he has held positions at South Korea's Advanced Institute for Science and Technology (2001-2012), Exxon Research and Engineering (1990-1995), Haverford College (1984-1989), and University of Pittsburgh (1982-1984).

Prof. Pine is a founding Director of the Center for Soft Matter Research at New York University, serving from 2005-2014. He Chaired, and was a member of, the Executive Committee of the Division of Condensed Matter Physics, American Physical Society, from 2007-2011, and co-edited The European Physical Journal E (Soft Matter) from 2007-2010. He has received many honors, including that of Professeur Invité at ESPCI in Paris, France (1999-2000, 2003); a Professeur Invité at the University of Strasbourg, France (1997), and the Langmuir Lecturer award from the American Chemical Society in New York (2003). In addition, he was a Guggenheim Fellow (1999-2000), a fellow of the American Association for the Advancement of Science (2000), and a Fellow of the American Physical Society (1997).

Prof. Pine has generated an impressive body of work through his research, with over a hundred publications to his name. His work has been featured in various distinguished publications, such as Physical Review A, Physical Review B, Journal de Physique, The Journal of Chemical Physics, earning the Society of Rheology Publication of the Year Award along the way, in 2000.



פרופסור דוד פיין

ראש המחלקה להנדסה כימית וביו-מולוקולרית, המרכז לחומרים רכים,
המחלקה לפיזיקה, אוניברסיטת ניו-יורק, ארה"ב

Professor David Pine

Chair, Department of Chemical & Biomolecular Engineering
The Center for Soft Matter, Department of Physics, New York University, U.S.A

סמינר | Seminar

A NON-EQUILIBRIUM PHASE TRANSITION UNDER PERIODIC DRIVE; CRITICAL DYNAMICS AND HYPERUNIFORMITY

The seminar will be held on Wednesday
1 June 2016, at 11:10
room 118, Kaplun Physics Building
Tel-Aviv University, Ramat-Aviv

הסמינר יתקיים ביום רביעי
1 ביוני 2016, בשעה 11:10
חדר 118, בניין קפלון לפיזיקה
אוניברסיטת תל-אביב, רמת-אביב

כיבוד קל יוגש לפני הסמינר | Light refreshments will be served before the seminar

<http://www.tau.ac.il/institutes/advanced/>



Prof. Yael Roichman and Prof. David Pine



Prof. David J. Pine at his lecture

RAYMOND AND BEVERLY SACKLER
FACULTY OF EXACT SCIENCE
SCHOOL OF CHEMISTRY

הפקולטה למדעים מדויקים
ע"ש ריימונד וברלי סאקלר
בית-הספר לכימיה

Dr. Yael Roichman
Phone +972-3-6405848 • fax +972-3-6409293
Email roichman@tau.ac.il • web <http://www.tau.ac.il/~roichman/>

20.6.2016

The Mortimer and Raymond Sackler Institute of Advanced Studies

Dear Dr Raymond Sackler,

Re: Visit of Prof. David Pine

Professor David Pine was invited this year as a Sackler lecturer to spend two weeks in Tel-Aviv University. During his visit Prof. Pine delivered two talks, one focusing on DNA assisted colloidal self-assembly for a general audience and the other on dynamic phase transitions in sheared colloidal suspension for a specialized audience. Both lectures were received with great interest by the large soft matter and biophysics community in Tel Aviv University and stimulated long scientific discussions.

Prof. Pine received his PhD in Physics in Cornell University. He spend two years in the University of Pittsburg as a Postdoctoral research associate, and then five years in Haverford College as an assistant professor of physics. In 1987 Prof. Pine was appointed a Visiting Scientist, Exxon Research & Engineering, and between 1990 and 1995 he worked there as a Staff Physicist. In 1995 Prof. Pine joined the University of California, Santa Barbara, as a Professor of Chemical Engineering and Professor of Materials. He served as chair of the Chemical Engineering Department at UCSB between 2001-2004. Prof. Pine was Founding Director of the Center for Soft Mater Research in New York University between 2005 and 2014, and is at present Chair of the Department of Chemical & Biomolecular Engineering NYU Polytechnic School of Engineering.

His visit was of particular value to our group of experimental soft matter research, who are involved in a collaboration for unravelling the dynamics of the self-assembly of the cytoskeleton. Prof. Pine, who is known for his expertise in light scattering techniques, took an active part in setting up a new dynamic light scattering system at Tel Aviv University during his visit here. Many fruitful discussions with him on the design of our experiments were thus stimulated.

I would like to express my deepest appreciation for the Mortimer and Raymond Sackler Institute of Advanced Studies generosity in support of this visit, the warm hospitality, and the seamless organization.

Sincerely yours,



Yael Roichman

