



האקדמיה הלאומית הישראלית למדעים
מתכבדת להזמין אתכם
לכינוס הרב-תחומי השנתי השני
במדעי הטבע ובמדעי הרוח

שפות

מערכות תקשורת בטבע,
אצל בני אדם ובמחשבים



ביום שני, י' בשבט תשע"ז
6 בפברואר 2017, בשעה 9:00
בבית האקדמיה, כיכר אלברט איינשטיין
רחוב ז'בוטינסקי 43, ירושלים



The Israel Academy of Sciences and Humanities
takes pleasure in inviting you
to the forthcoming conference in its
**Annual Multidisciplinary Science
& Humanities Meetings**

LANGUAGES

NATURAL, HUMAN AND ARTIFICIAL
SYSTEMS OF COMMUNICATION



Monday, February 6, 2017, at 9:00 am
at the Israel Academy
Albert Einstein Square
43 Jabotinsky Street, Jerusalem

PROGRAM

09:15–09:30 Opening remarks
Nili Cohen, President of the Israel Academy

09:30–12:30 LANGUAGES OF NATURE

Honoring the memory of Sir Dr. Ralph Kohn

Chair: **Yadin Dudai**, Academy member, Weizmann Institute of Science

Yitzhak Pilpel, Weizmann Institute of Science
Lamarckian evolution: From the genome's slang to its dictionary

Phillipa Melamed, Technion – Haifa Institute of Technology
The sophisticated dialogues and powerful commands of hormones

10:30–11:00 Coffee Break

Yossi Yovel, Tel Aviv University
Vocal communication in a crowd of bats: From chaos to information

Hanna Damasio and **Antonio Damasio**, University of Southern California
From the languages of chemistry and neural circuits to the languages of behavior and mind

A glance into the language of music
Zvi Plessner – Cello
Head of Strings at the Jerusalem Academy of music and dance
J.S. Bach: Suite No. 2 in d minor BWV 1008

12:30–13:30 Lunch

13:30–15:30 LANGUAGES OF HUMANS

Chair: **Ruth Berman**, Academy member, Tel Aviv University

Jan-Ola Östman, University of Helsinki
Language: Variable, adaptable – yet restrained

Naama Friedmann, Tel Aviv University
Language disorders and what they can tell us about language

Shlomo Izre'el, Tel Aviv University
Aristotle was not a linguist: The view from spoken Israeli Hebrew

Wendy Sandler, Haifa University
What sign languages can tell us about human language

15:30–16:00 Coffee Break

16:00–18:30 LANGUAGES OF MATHEMATICS & COMPUTING

Chair: **Avishai Margalit**, Academy member, The Hebrew University of Jerusalem

Johan van Benthem, University of Amsterdam
Language as code or language as action

Zvi Artstein, Weizmann Institute of Science
Is mathematics vague enough?

Shimon Schocken, IDC Herzliya
Early age mathematics: Learning what counts

David Harel, Vice President of the Israel Academy, Weizmann Institute of Science
Languages for programming: From punched cards to wise computing

Concluding remarks