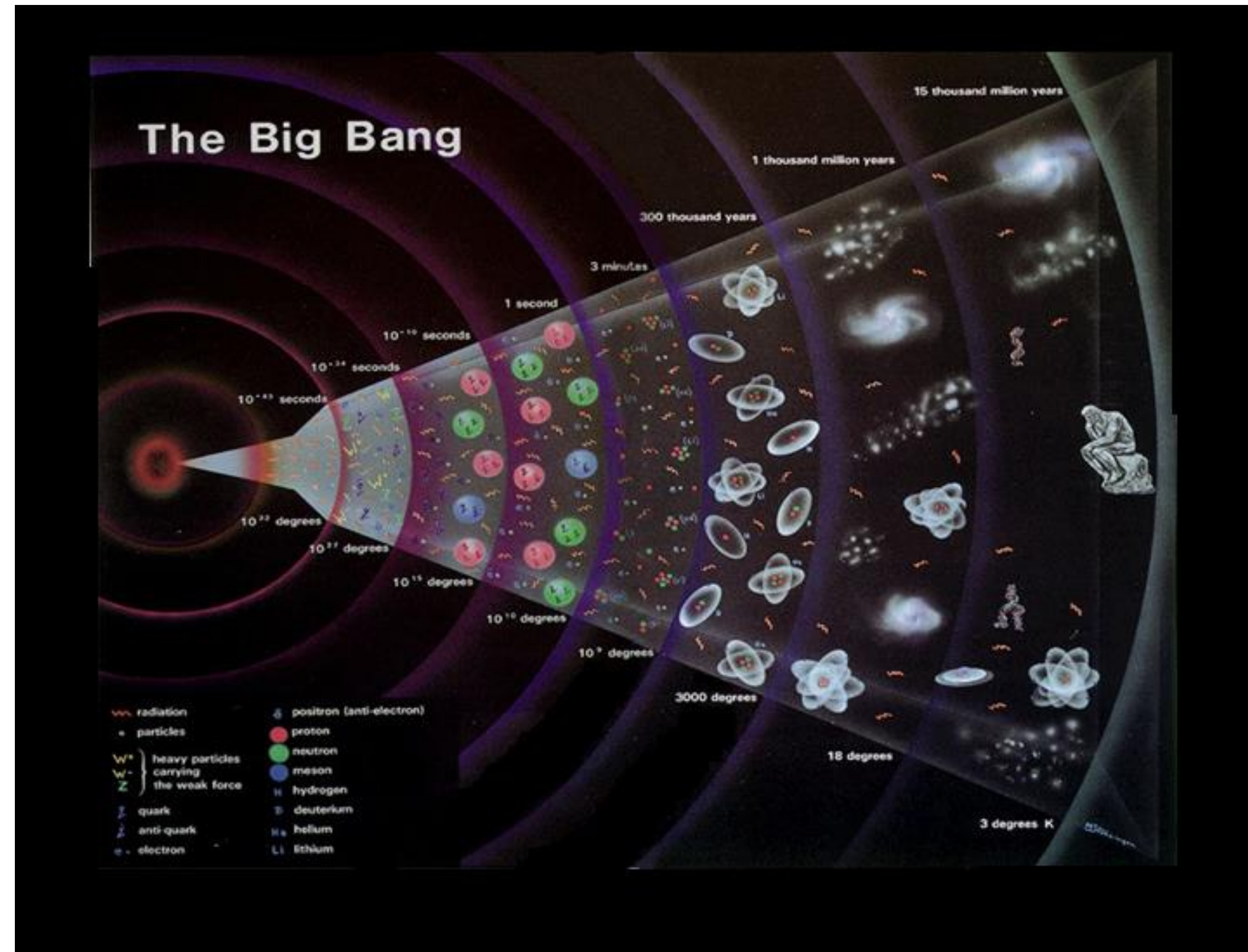


HERWIGFEST CERN 1ST OF MARCH 2024 (100 YEARS +2 DAYS)



HERWIGFEST CERN 1ST OF MARCH 2024

(100 YEARS +2 DAYS)



HUMANS CAN MAKE A DIFFERENCE

**The future belongs to those who
believe in the beauty of their dreams.**

--ELEANOR ROOSEVELT



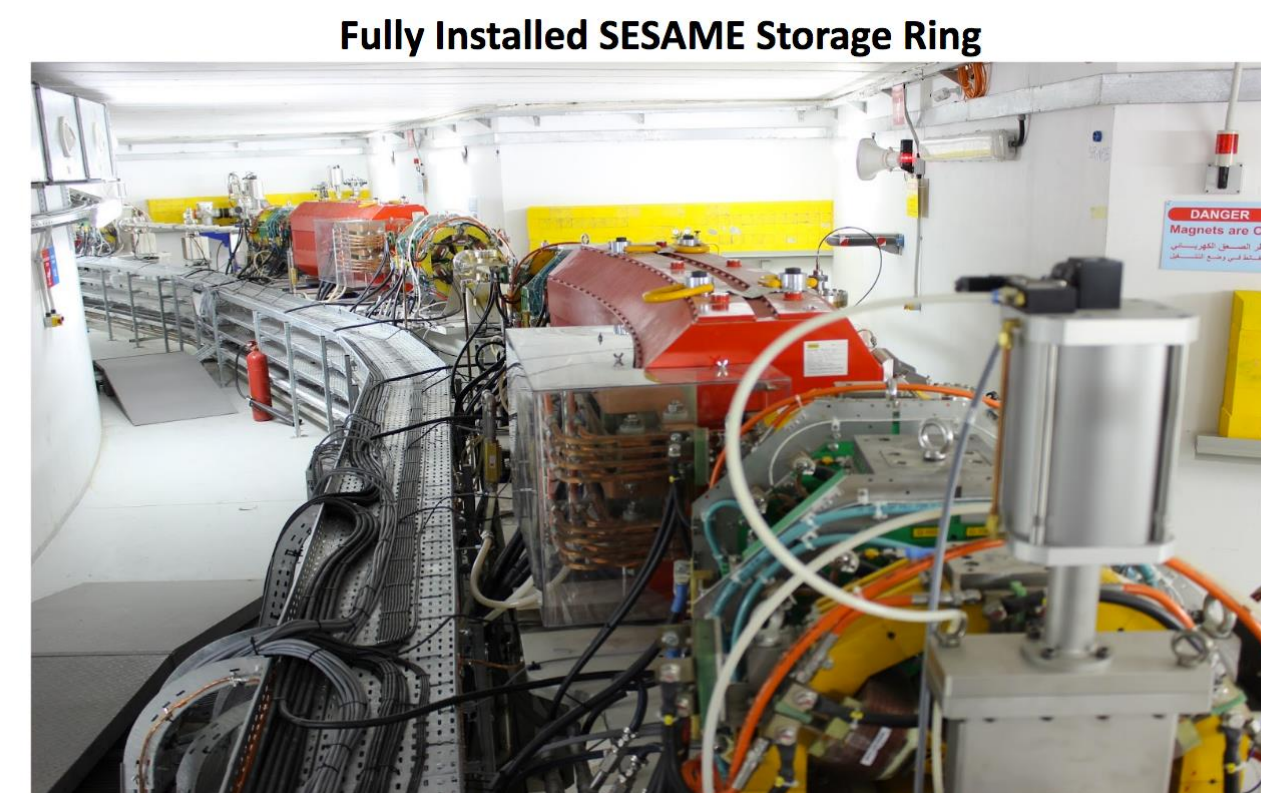
- SUCH BEAUTIFUL DREAMS ARE RARE AND
- ACTUALIZING THEM IS WHERE THE WORK IS.
- AS WE HEARD TODAY HERWIG HAS BOTH!

SESAME Members & Observers



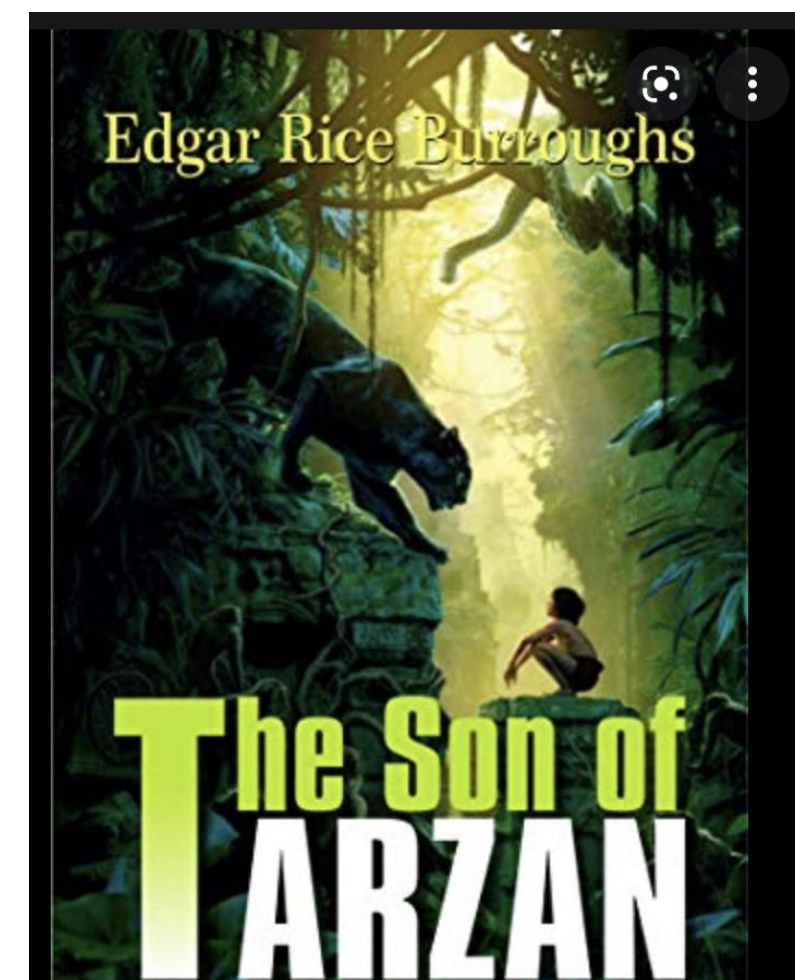
Members: Cyprus, Egypt, Iran, Israel, Jordan, Pakistan, Palestine, Turkey.

Some Observers: Brazil, Canada, China (People's Republic of), the European Union, France, Germany, Greece, Italy, Japan, Kuwait, Portugal, Russian Federation, Spain, Sweden, Switzerland, the United Kingdom, the United States of America.



CERN

- **CERN - SESAME :
COMMON VISION.**



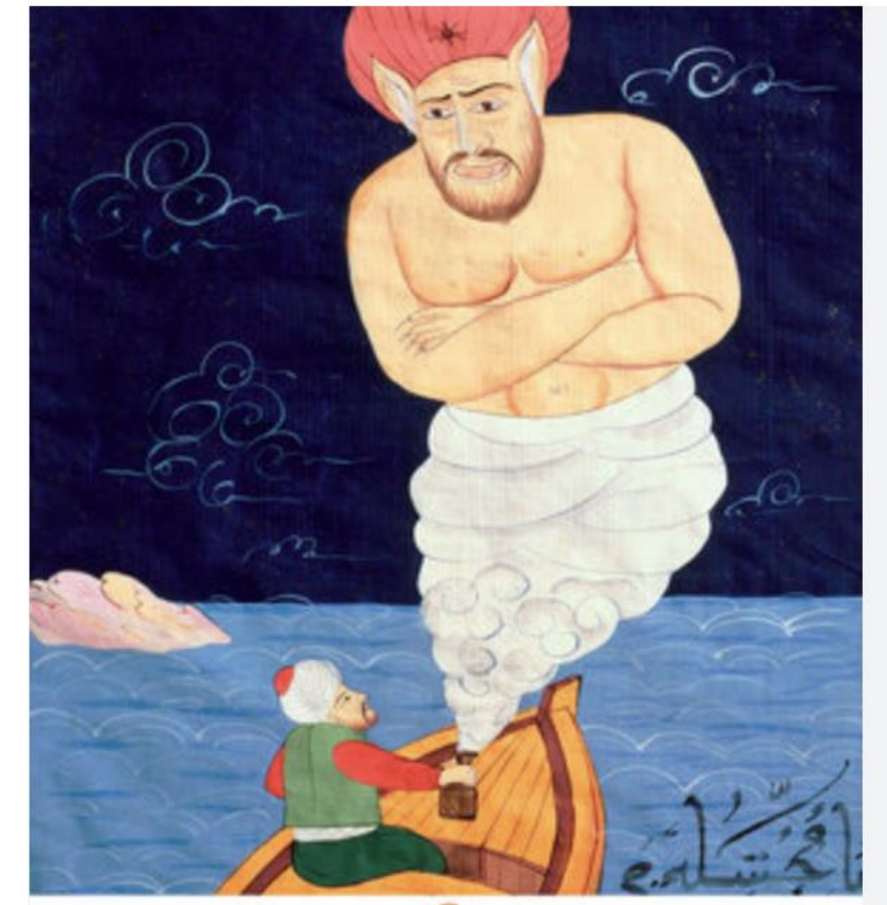
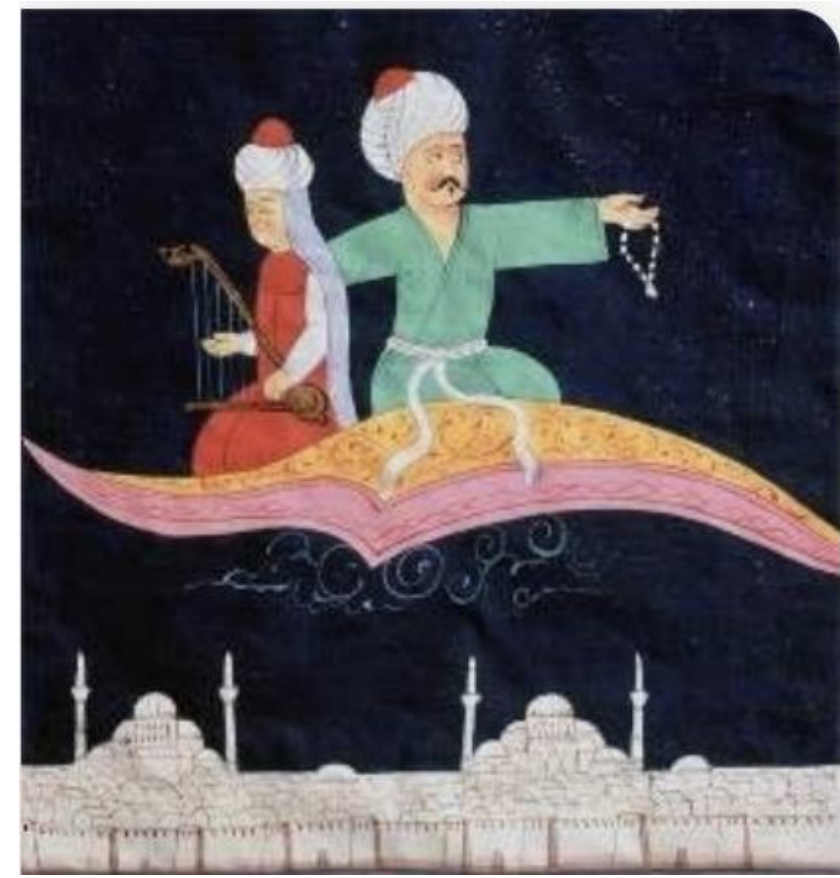
WITH A BIG DIFFERENCE

DG OF CERN AS INTERNSHIP PRESIDENTS OF SESAME COUNCIL



PHOTOS BEFORE.....

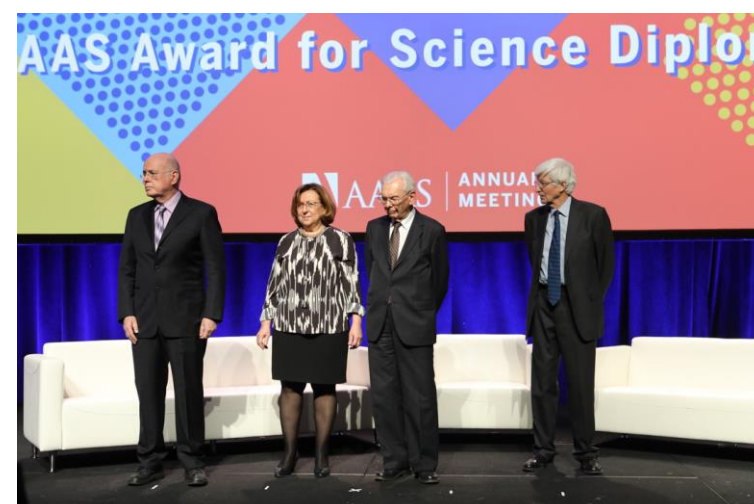
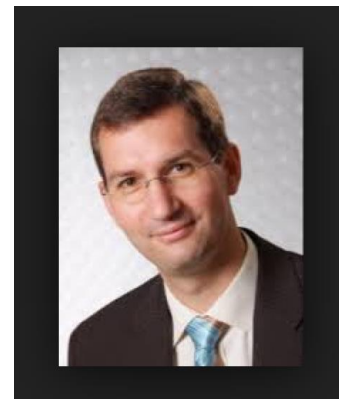
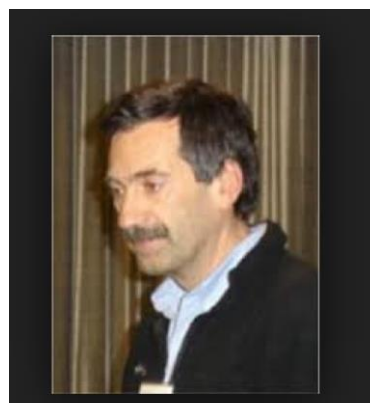
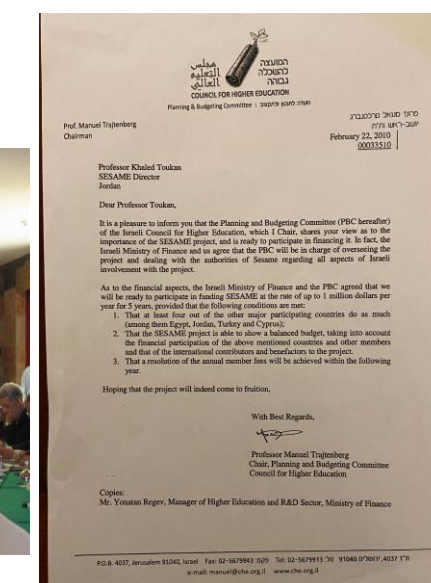
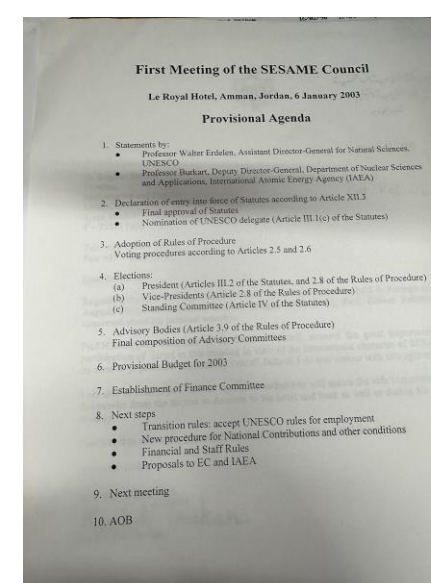
**CREDIT: SUCCESS HAS MANY FATHERS,
FAILURES ARE ORPHAN
HISTORY TALES FROM THE MIDDLE EAST ONES**



**SESAME WAS FOUNDED BY MANY
SOME OF THE NAMES ARE KNOWN
MOST WE MAY NEVER KNOW**



APRIL 11TH 2000 JORDAN



XANES Study of Fuel Cell Catalysis at SESAME/ Dr. Brian Rosen (PI)

Fuel cells are devices which can convert chemical energy into electrical energy with the aid of 2 electrodes made from catalytic materials. Degradation of these catalytic materials negatively impacts the performance of the fuel cell and limits its lifetime. The Rosen group is developing new catalytic materials for fuel cells based off of transition metal carbides with enhanced stability and activity. X-ray adsorption techniques (XANES) at SESAME assist us to learning the electronic configuration of these new materials to reveal the origin of their improved performance. The amount of X-rays adsorbed by the platinum (Pt) placed on these new carbide catalysts can indicate how many electrons are present in the 5d Pt orbital, where electrons that participate in catalysis are found. Lower adsorption indicates the Pt 5d orbital is more full, and therefore fewer electrons can be excited by the X-rays to this state.

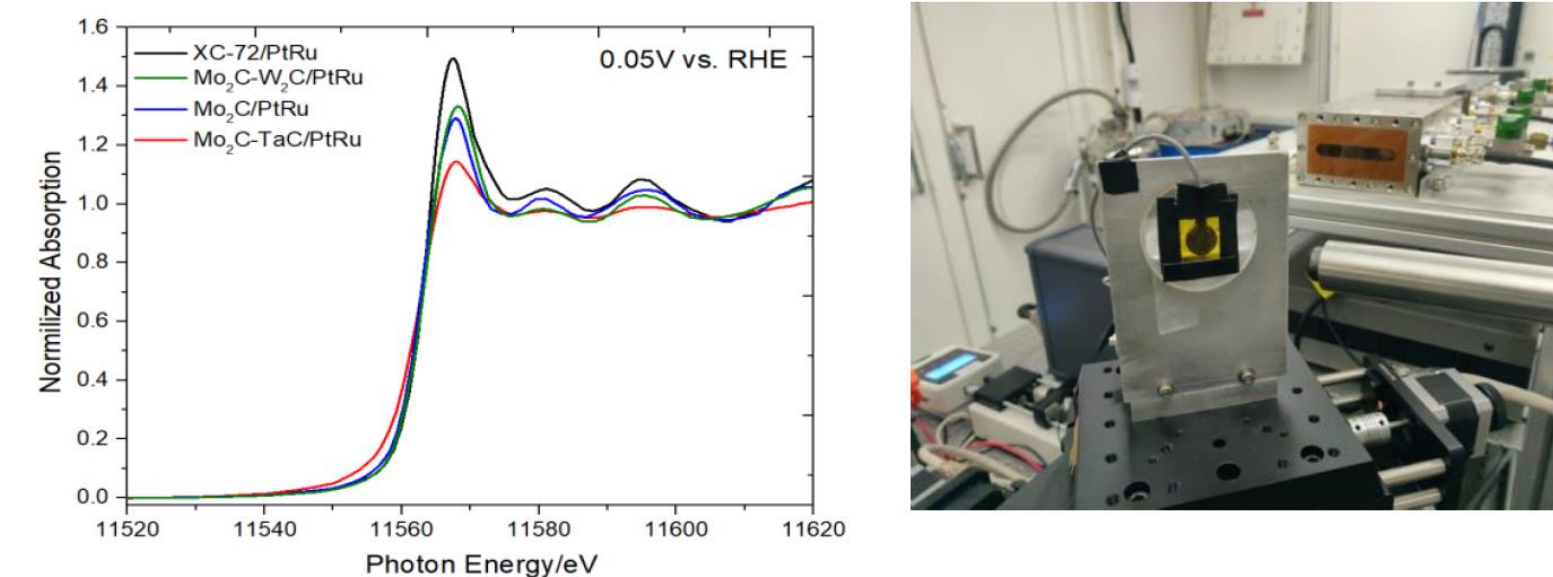


Figure 1: (left) Pt L_{III} XANES spectra as a function of support composition (right) Custom-built fuel cell rig for built for the experiment.

We found at SESEME that the occupancy of the Pt 5d orbital is largest in the tantalum carbide alloy and smallest in the tungsten alloy. Electrochemical tests show that the tantalum alloy far outperforms the tungsten or the unalloyed support. These tests suggest that the carbide can be modulated to donate electrons to the Pt nanoparticles thereby improving catalytic activity.

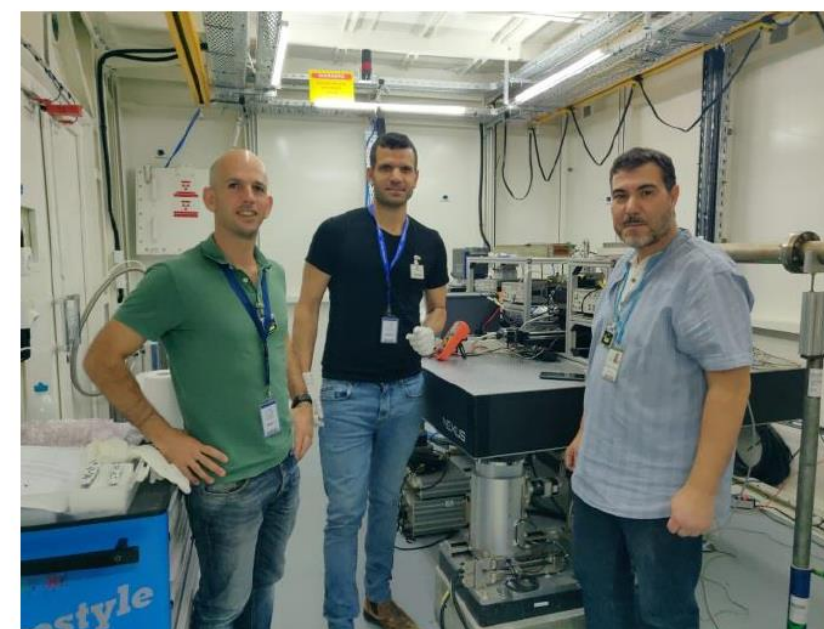
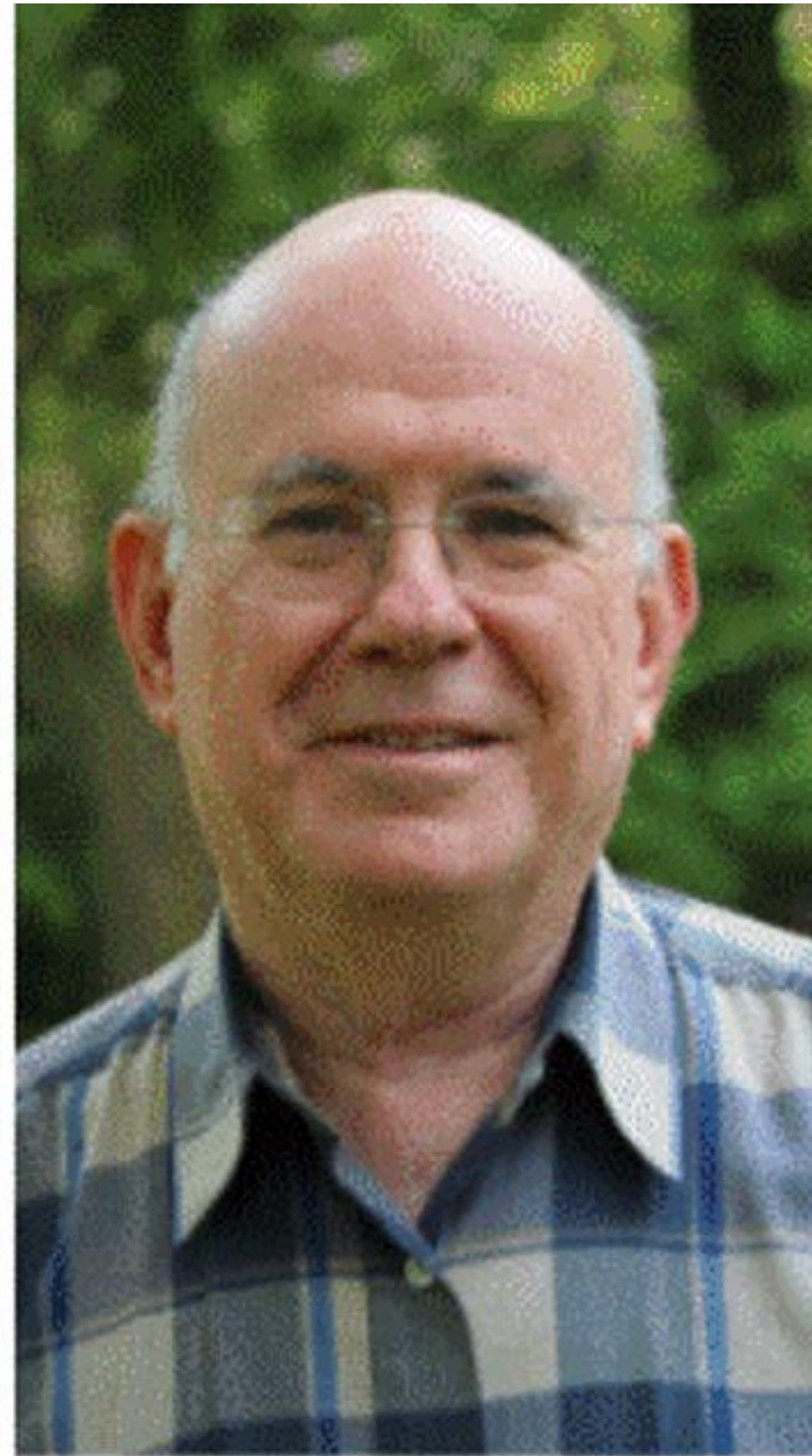
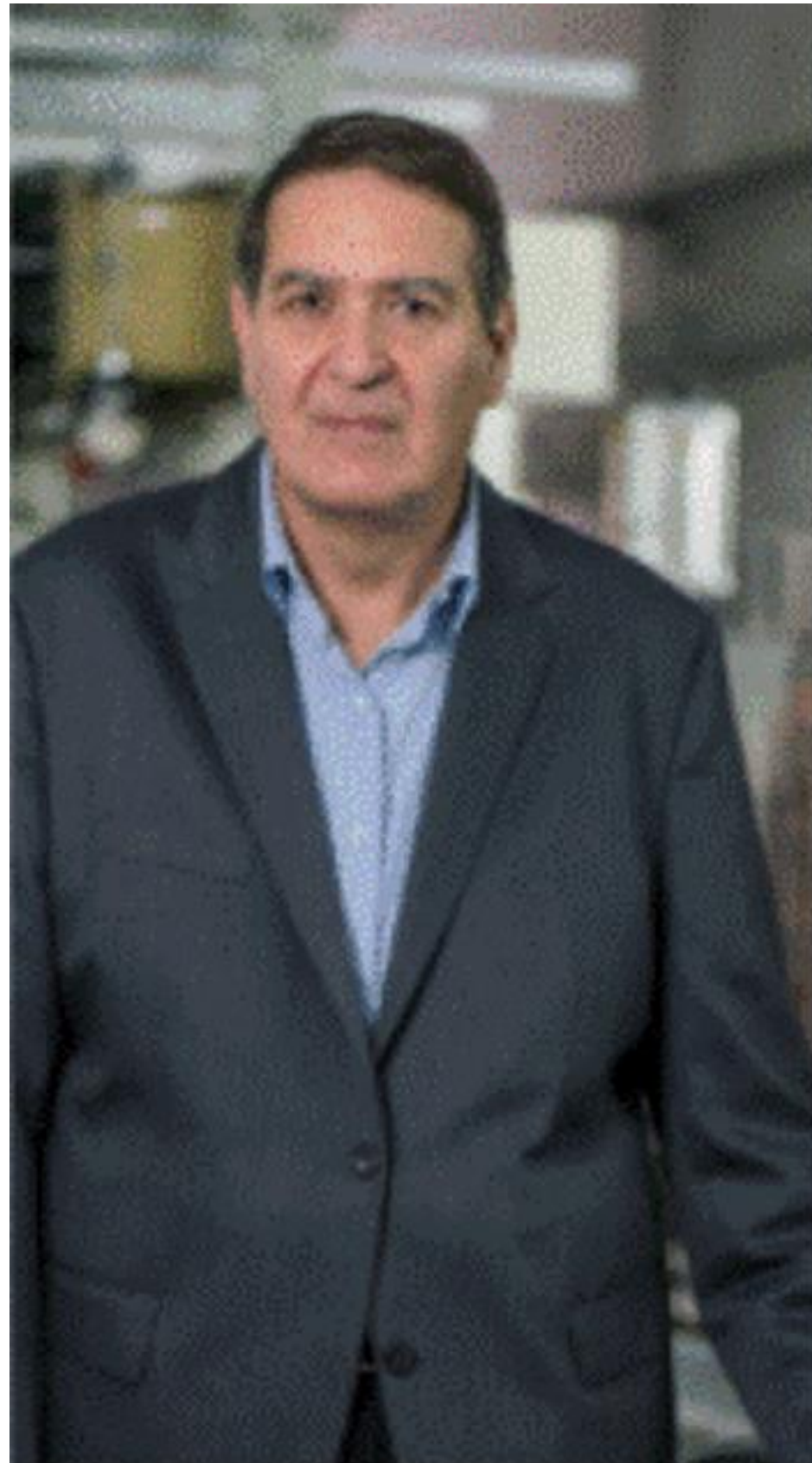
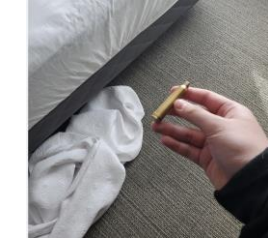
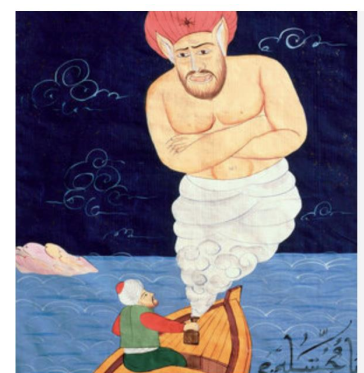


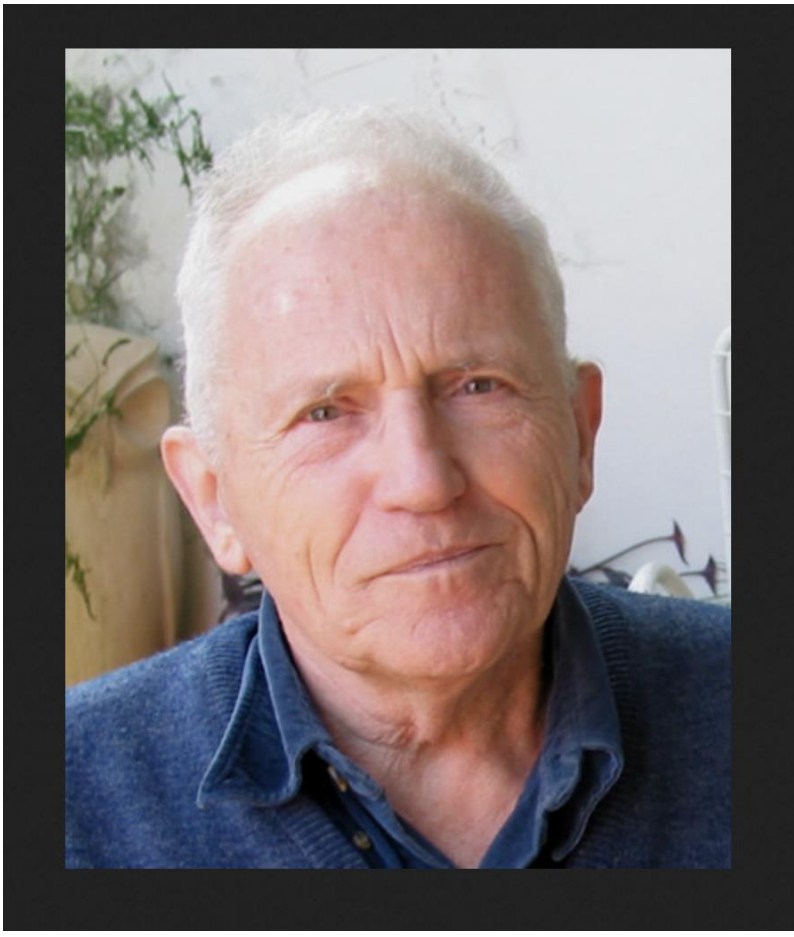
Figure 2: Rosen group members Itai Gerlitz (left) and Eliran Hamo (middle) with beamline scientist Messaoud Harfouche (right)

PERSONAL – A QUITE UNLIKELY BAND



TRUE

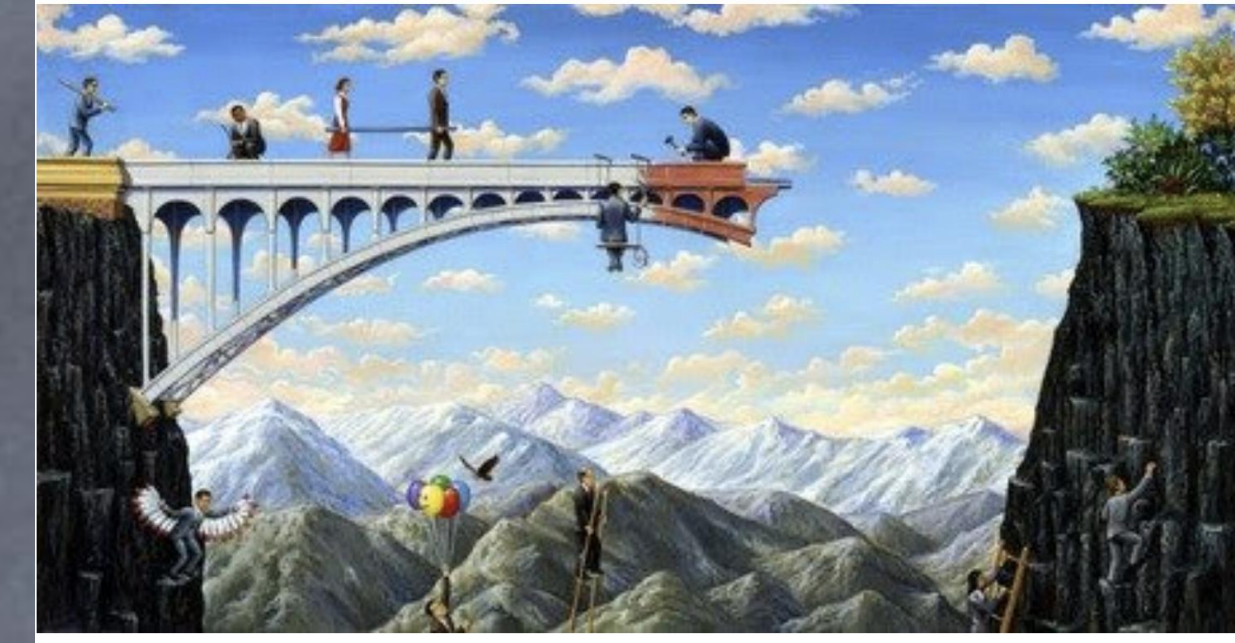




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 ומתמיה ביותר — תושב! הרי בתושבים, ובמיוחד בעדת-האשכנזים, ראינו אנשים בלתי אהדים לנו. מעשהו עשה רושם כה עז, עד כי גם הבחורים, שהיה ברעתם לבסות ולהסתגן לירושלים כתושבים, יצאו כמעט כולם מבין הקהל וצעדו קדימה — כשלושים וחמישה במספר. מוטקה פנקס סידרם כשלשות. בראות המפקד הערבי את מספר-הלוחמים הדל שעמד נגד צבאו נעלב קשות:
 "אלה כל החיילים?" שאל. "שלושים וחמישה איש הרגו למעלה ממאתיים מחיילינו? אילו הייתי יודע על כך קודם, כי או הייתי שולח בכס את אנשי מצוידים במקלות".
 והוא הו יתה עליו להציג את שבוייו לאורך כל הדרך — בכפרי ירושלים, ביריחו, בשונה, באיסלם, בעמאן, בורקה ובמפרק. מה יציג? שלושים וחמישה איש? הן בוז יבוו לו, לא כי! הנצחון חייב לעורר רושם כביר בעולם הערבי. הוא פקד על חייליו לקחת כל גבר שנראה בעיניהם. זקנים, חולים, נערים וילדים נלקחו. להערת משה רוסנק על כך — ענה עבדאללה תל כי ימינו אותם אחי-הגברים סודרו בשלשות והתקדמו תחת משמר.
 לפני שהחל פינוי התושבים אל מחוץ לחומה גדרש מאתנו לשלוח אדם אל הכוחות היהודיים בהר-ציון וליצור קשר אתם. המיכ ניסן ולדס, שנקבע להפקיד זה, נקרא אל עבדאללה תל והבטיח לו בהן צדק שישוב. הוא יצא עם זהה קירשנבוים, כשהוא נושא דגל לבן, אל מחוץ לשער-ציון, והתקשר עם בחורי הפלמ"ח. למחרת בבוקר חזר ניסן וזהה קירשנבוים עמו, כפי שהבטיח. מתוך הרצון לשמור על כבודו של החייל היהודי.

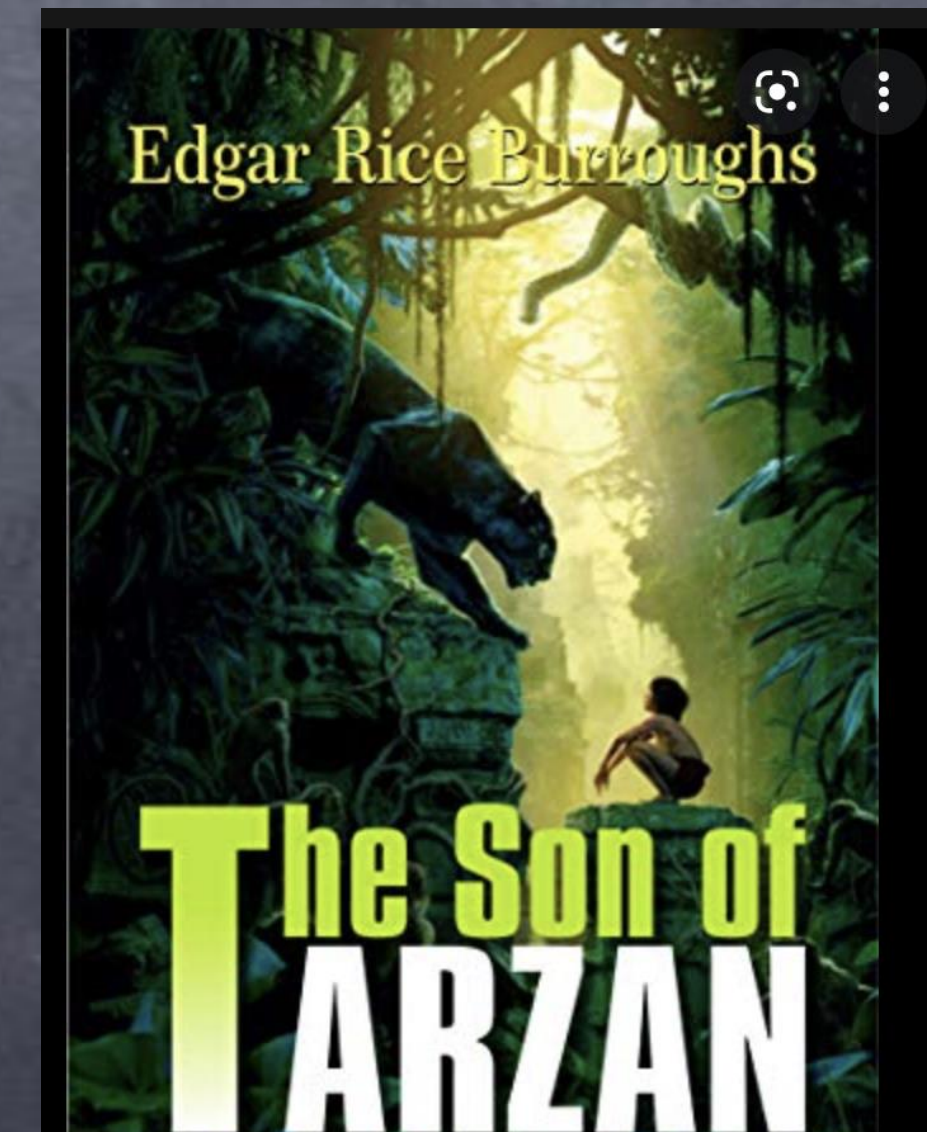
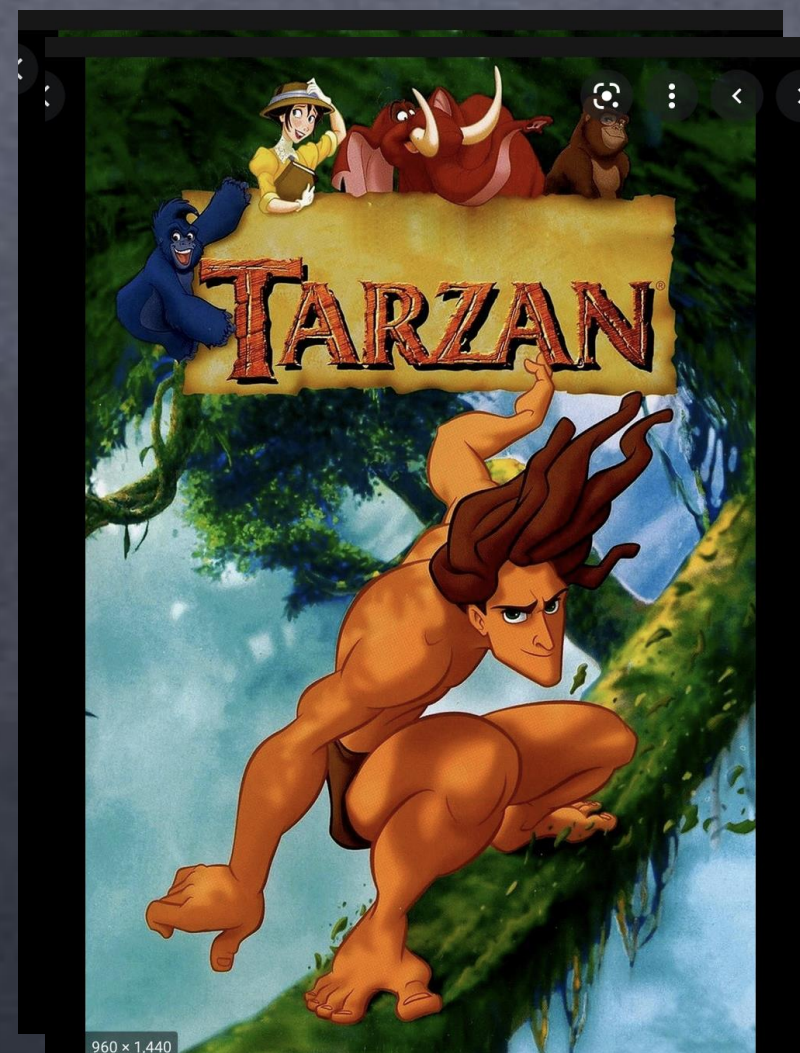
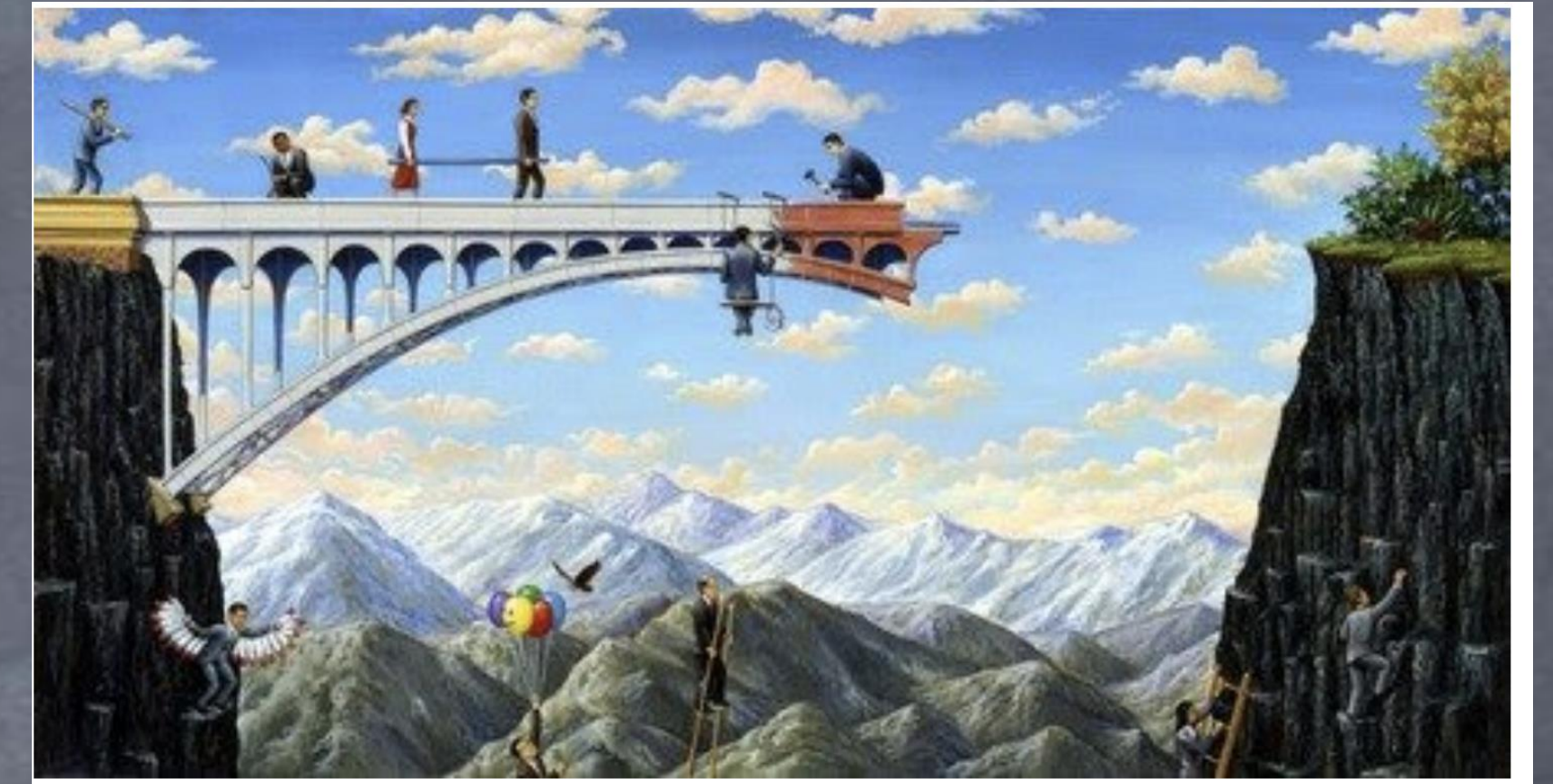


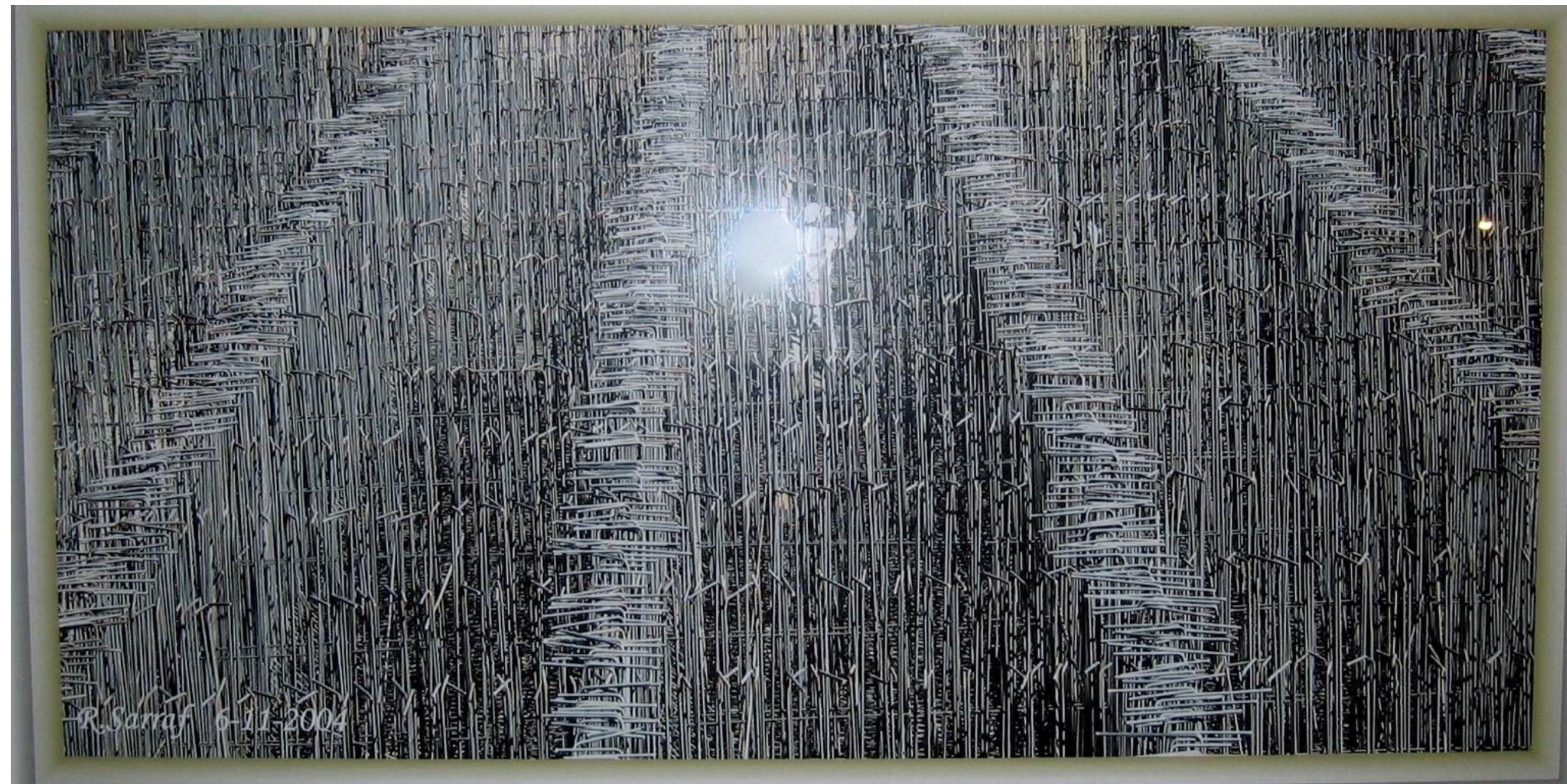
Lessons On How to visit a Parallel Universe.



- AN UPPER BOUND EXPERIMENT.
- EACH SIDE BRINGS ITS SCARS AND ITS COMMON WILL. AN EXISTENCE THEOREM
- THE SCIENTISTS TOOK THEIR GOVERNMENTS TO A PLACE THEY NEVER TOUGHT TO BE IN AND REALIZING THAT THEY DID NOT BLINK, SO FAR.

Lessons ?





DEAR HERWIG MAY YOU LIVE IN GOOD HEALTH

TILL 120 YEARS

MAY A NOBEL PRIZE WORTHY DISCOVERY

BE MADE AT SESAME (HAPPENED AT CERN..)

MAZAL TOV מזל טוב

