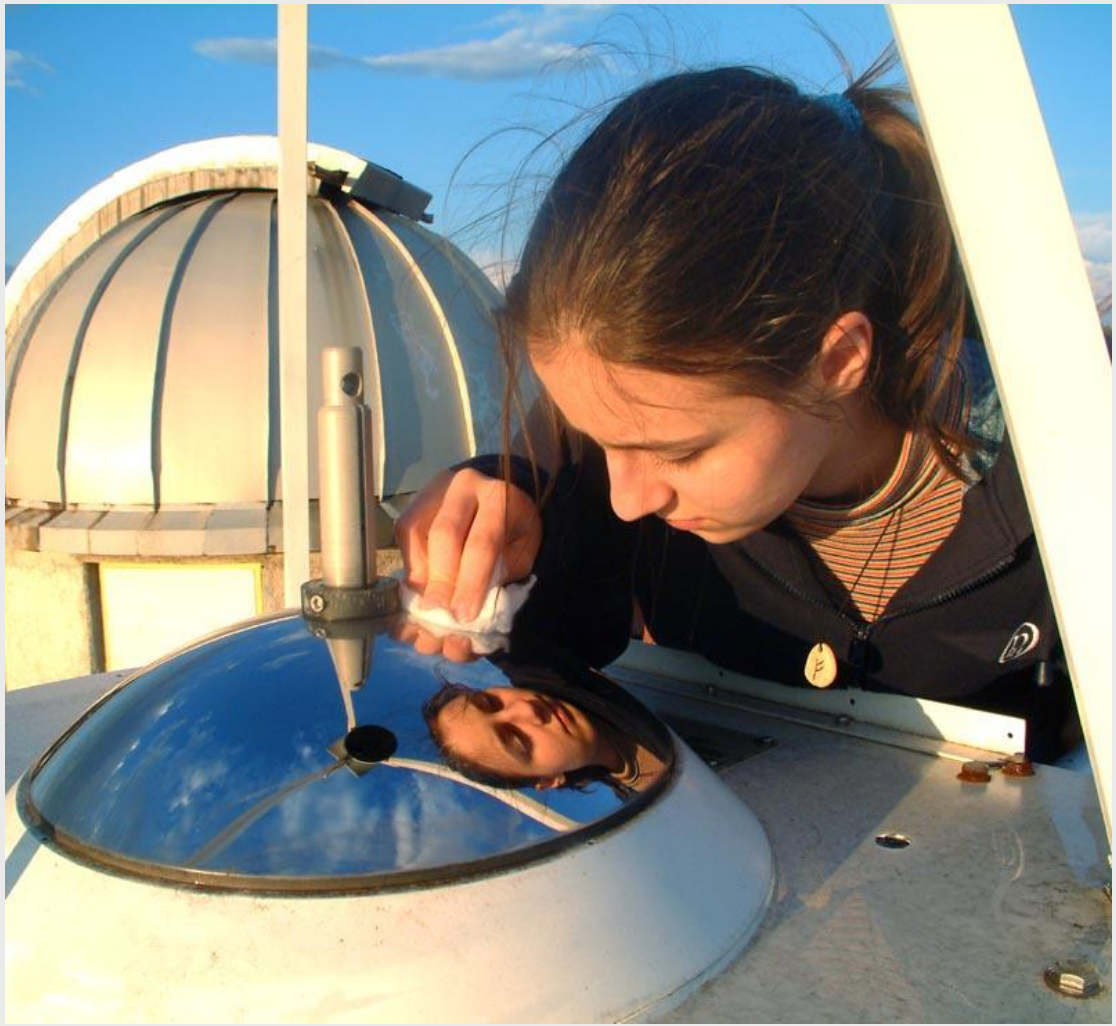
KOLIKO RANO ?

se mladi mogu početi baviti znanošću?



PITANJA:

- Što mlade danas motivira?
- Koliko rano se mladi mogu početi baviti znanošću?
- Kako se može potaknuti njihovo bavljenje znanošću?
- Koji je ispravan način rada s mladima zainteresiranim za znanost?
- Koje kompetencije moraju imati obrazovatelji (edukatori)?
- Što bi trebalo učiniti Sveučilište da bude više izvanškolskih programa za srednjoškolce i da ih se više uključuje u te programe?
- Što bi trebala učiniti država?
- Što od Sveučilišta trebaju oni koji rade s mladima?

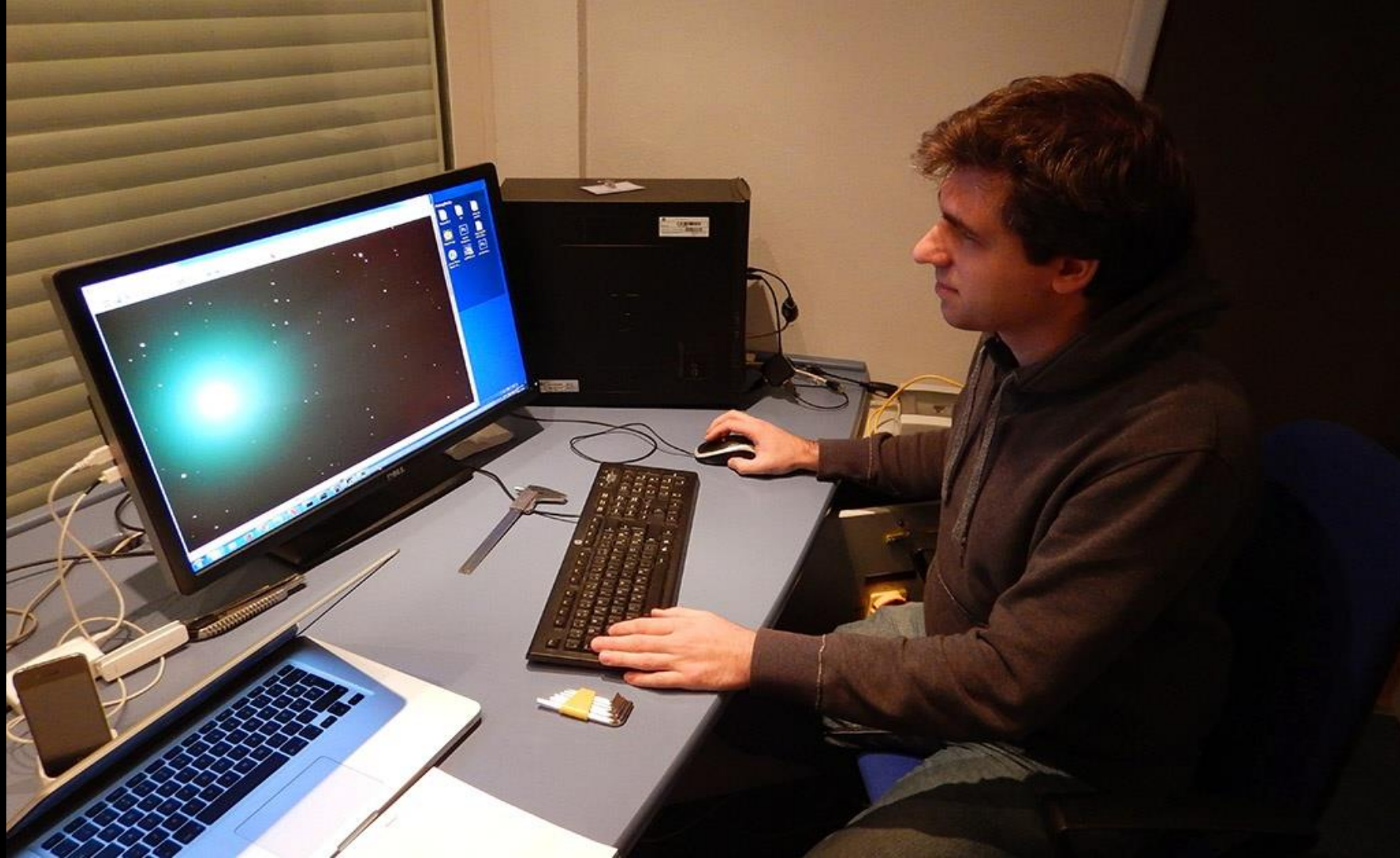
Zvjezdarnica Višnjan

nova osmatračnica, Tičan

DAGOR teleskop

promjer objektiva 1 m

ZAKLADADRIS



OTKRIĆA:

Visnjan Observatory

MPC code 120:

1750 – designations
1463 - numbered objects
225 - prin.designations
20 - one-opp. objects
2 - comets
1 - mira

THE ACADEMY OF SCIENCES OF THE CZECH REPUBLIC

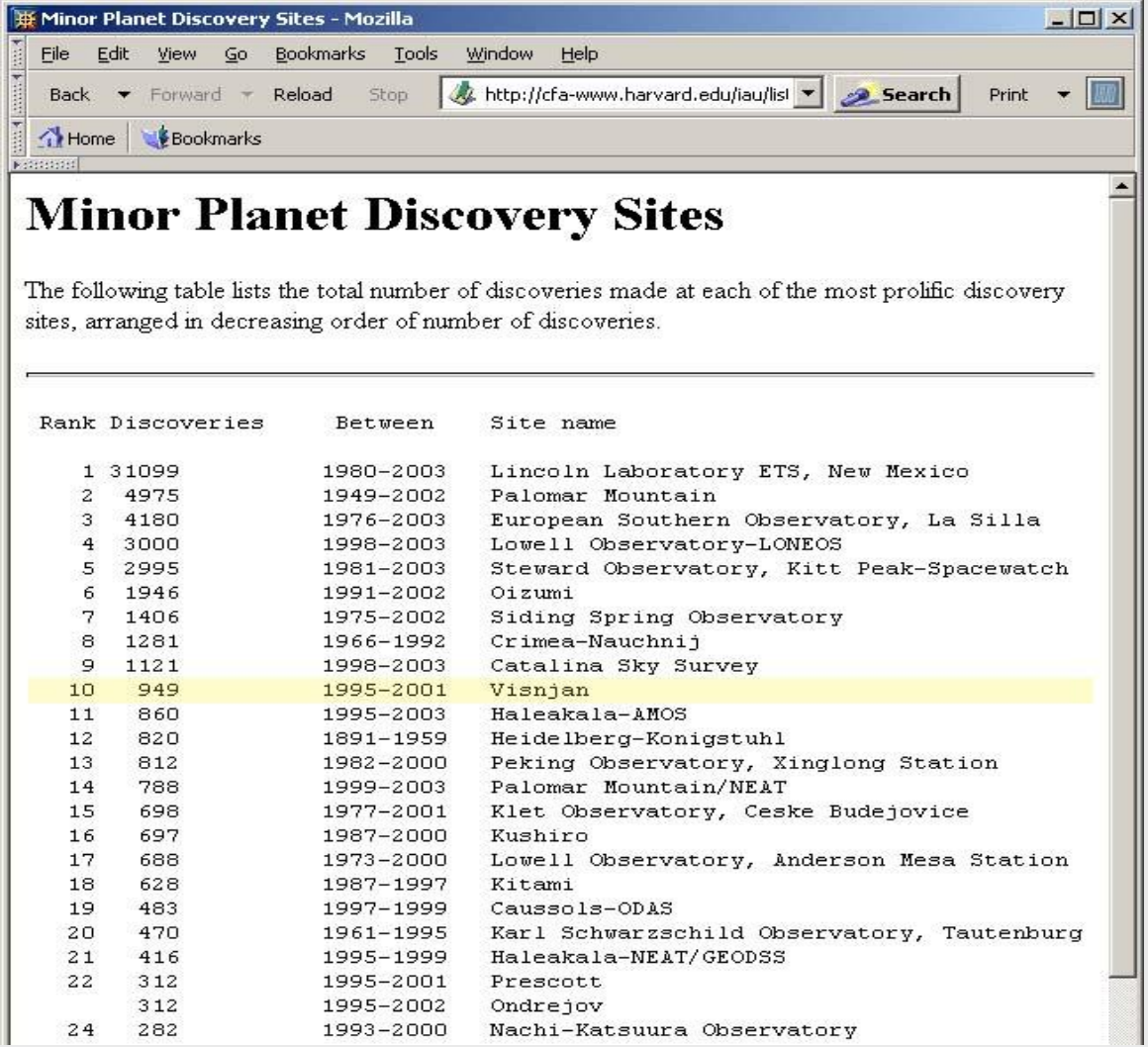
http://planetky.astro.cz/clanky.phtml?cislo=5

Ceský príspevek k pozorování planetek v roce 1999

Ludek Vasta, Petr Pravec

..... (snip) .....

Muzeme ríci, ze ceský príspevek k astrometrii planetek byl v minulém roce z globálního pohledu drobný, ale neprehlédnutelný. I kdyz jednoznacne **dominují USA**, je **Cesko na tretím míste**, za **druhým Chorvatskem** (coz je **stanice Visnjan**), v tesném závesu za Ceskem je **Japonsko** (rada malých stanic provozovaných astronomy-amatéry). Za Ondrejov lze ríci, ze pro nás je 8. místo uspokojivé, nebot se v tomto prípade jedná o nás doplnkový program k nasemu hlavnímu, fotometrickému programu.



Nositelji drugih geografskih otkrića od 1801. do 2003.

1.) USA
2.) EU
3.) Japan
4.) Australija
5.) bivši SSSR
6.) Njemačka
7.) Hrvatska
8.) Kina
9.) Češka R.
10.) Italija

.....

HRVATSKA
METEORSKA
MREŽA

Razvoj tehnologija

Uz potporu:

iPROJEKTI

MZOS iProjekt: 2008-086 Hrvatska meteorska mreža – druga faza š.g. 2008/2009

mireo

MIREO - mjerni instrumenti i GPS tehnologije: 2010-11.

ZAKLADADRIS

ZakladaAdris - oprema: Laboratorij fizike – vakumske tehnologije: 2010 -11.

CARNet

CARNet - računalne komunikacije i serveri

vip

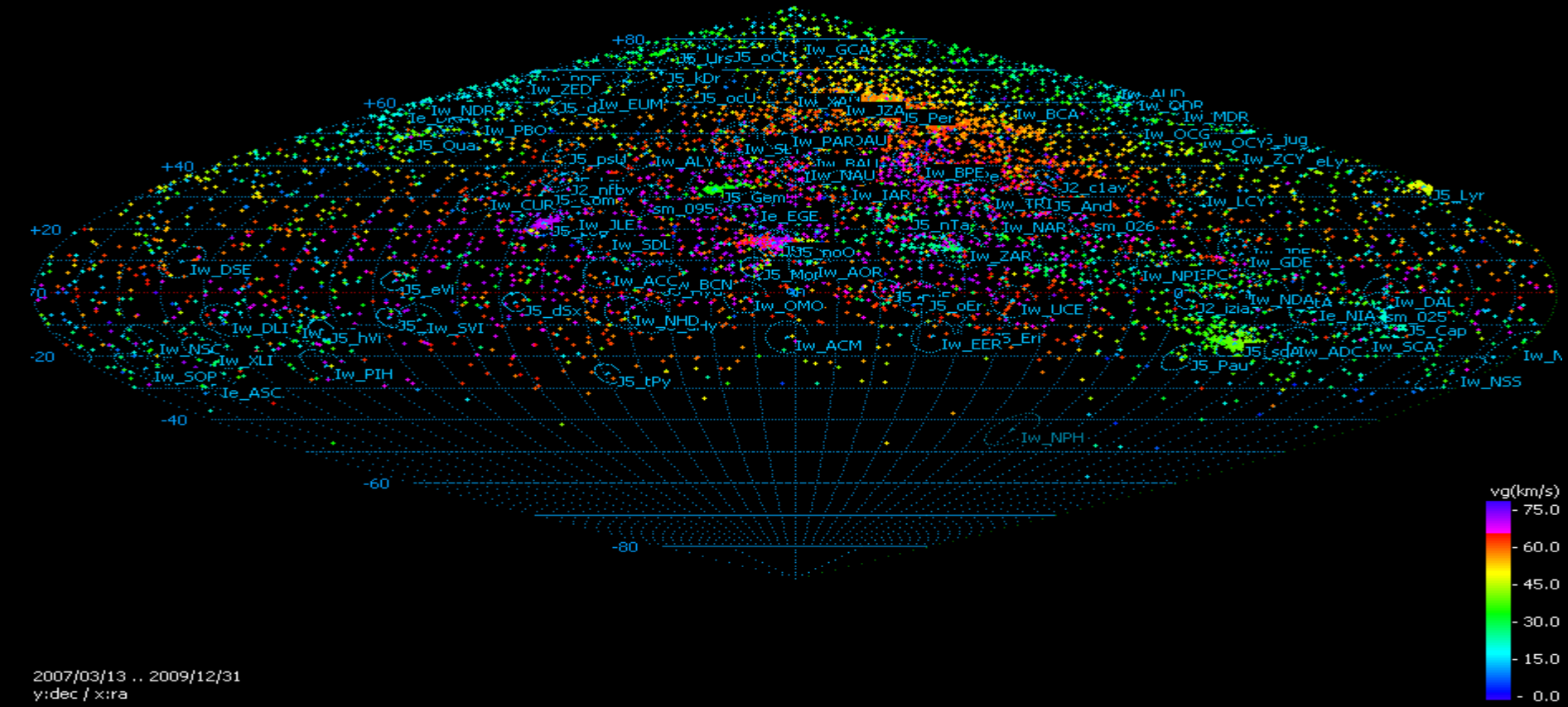
Računala i bežične komunikacije

HMM stanica - "Gimnazija Tituša Brezovečkog" - Zagreb

2011.

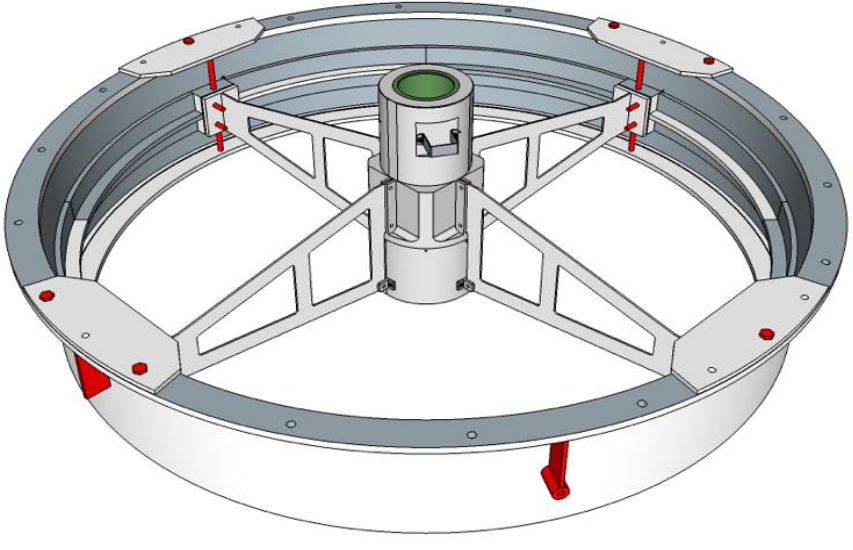

Austria
Liechtenstein
land
Hungary
Romania
Slovenia
Croatia
San Marino
Bosnia and Herzegovina
Serbia
Bulgaria
Italy
Montenegro
Holy See (Vatican)
Macedonia (FYROM)
Albania
US Dept of State Geographer
© 2011 Google
© 2011 Tele Atlas
© 2011 Europa Technologies
©2010 Google

All radiants plot 2007-2009 (partial)




CMN_Petrovsko
CMN_20110204_232041
CMN_Zagreb_Titus
CMN_Zagreb-RGN
CMN_Valpovo_B

Univerza *v Ljubljani*

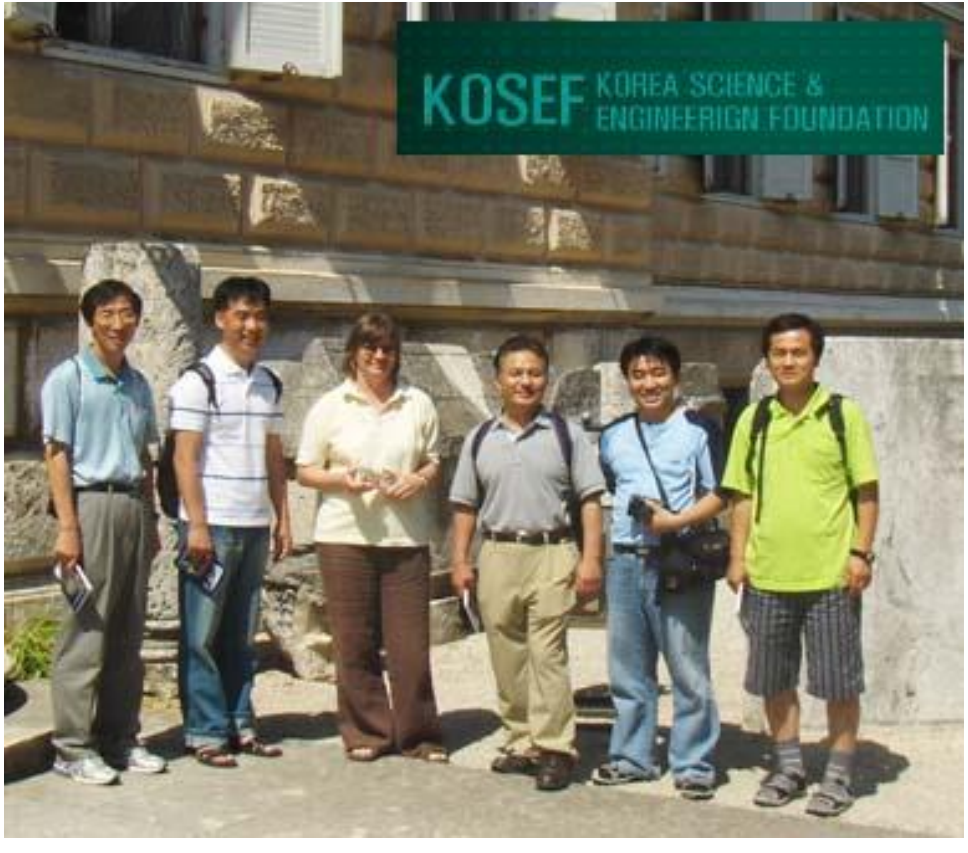


Novi fokuser teleskopa 1 m , Tičan

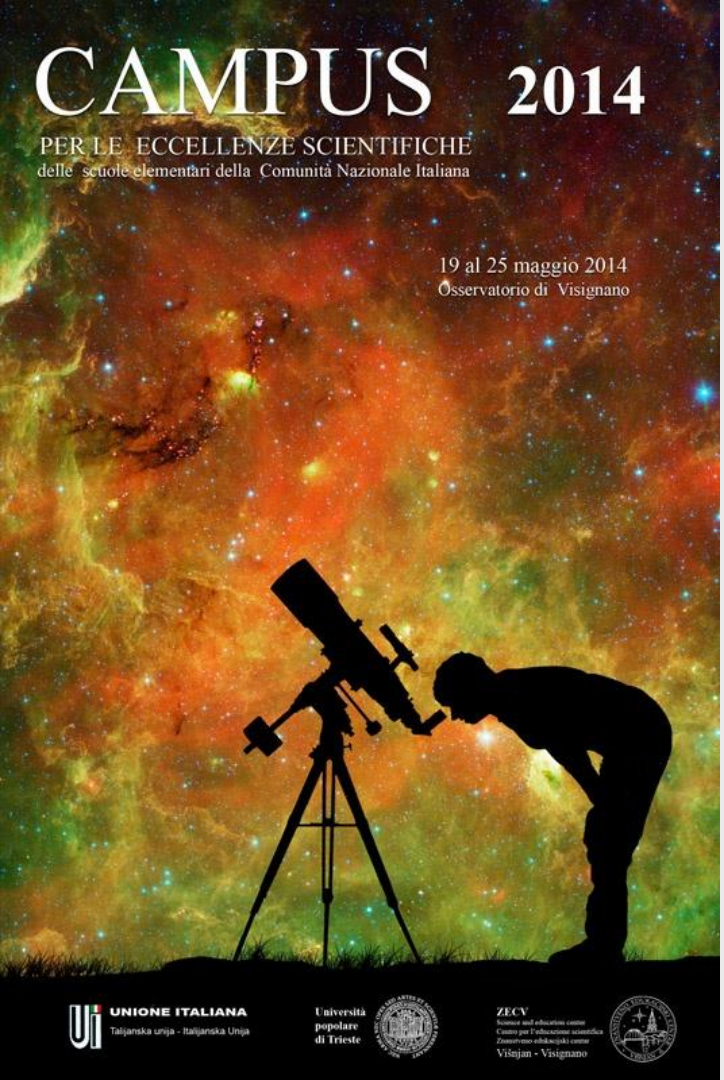
Korean Research Internship Program - Visnjan

KOFAC
Korea Foundation for
the Advancement of Science & Creativity
한국과학창의재단

21-dnevna specijalizacija, u edukaciji i istraživanju, za profesore znanstvenih srednjih škola Južne Koreje



This project has been funded thanks to the support from the South Korean Ministry of Science and Technology



CAMPUS

per le eccellenze scientifiche delle scuole elementari della Comunità Nazionale Italiana

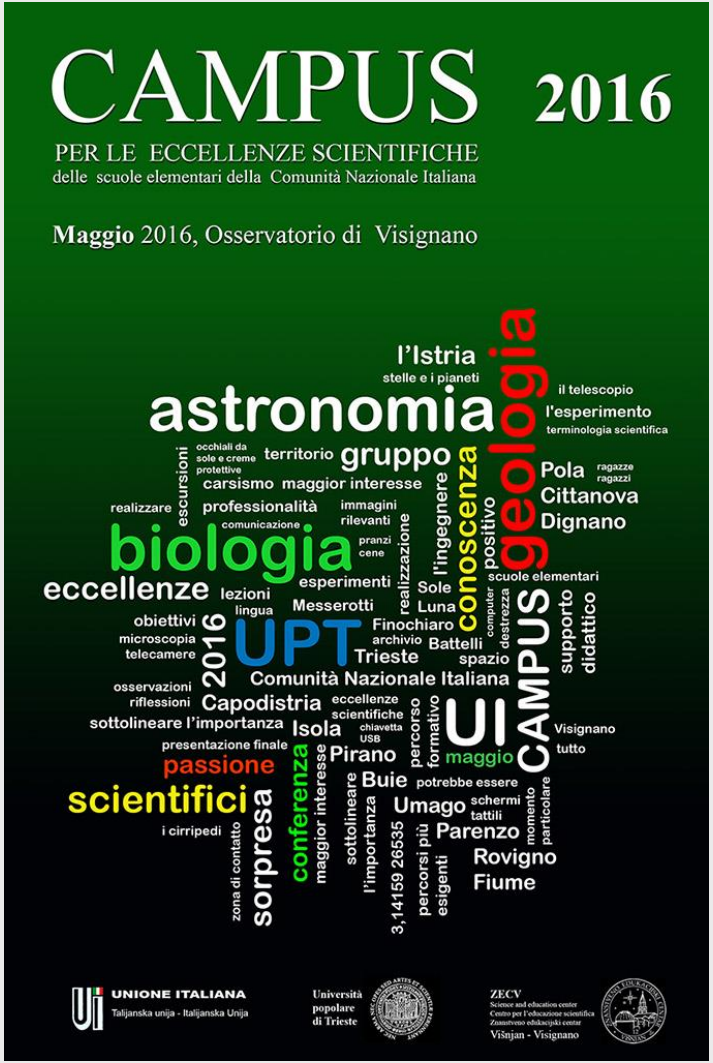
Višnjan – Visignano,

- Settembre, 02.-08. 2013.
- Maggio, ….19.-25. 2014.
- Maggio, ….11.-29. 2015.
- Maggio, ….02.-20. 2016.

This project has been funded with support from the Italian Ministry of Foreign Affairs

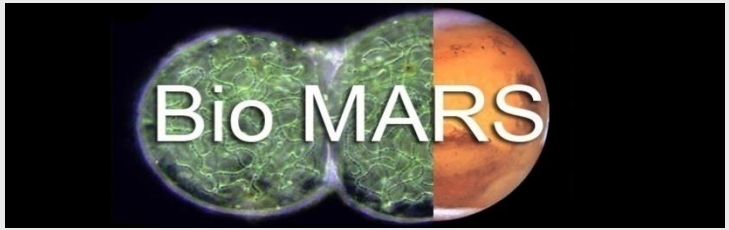

CAMPUS 2015
PER LE ECCELLENZE SCIENTIFICHE
delle scuole elementari della Comunità Nazionale Italiana
Maggio 2015, Osservatorio di Visignano
UNIONE ITALIANA
Talijanska unija - Italijanska Unija
Università popolare di Trieste
ZECV
Science and education center
Centro per l'educazione scientifica
Znanstveno edukacijski centar
Višnjan - Visignano


CAMPUS 2015
PER LE ECCELLENZE SCIENTIFICHE
delle scuole elementari della Comunità Nazionale Italiana



Šteta je da učenici hrvatskih škola nemaju pravo na takav program

Summer School of Science
Višnjan



This project was held thanks to the support from the Serbian Ministry of Education

Kongresi
i znanstveni
radovi

IMC 2012
Croatian Meteor Network

La Palma, Canary islands
IMC Conference
… učenici…

QUADRANTIDS 1994.
Visnjan Observatory

not on the picture: Korado Korlević

NOW, 2014.

1.) Neven Grbac
Associate Professor of Mathematics, 2009 ->
Department of Mathematics, University of Rijeka, Croatia
- Teaching Assistant, University of Rijeka, Croatia, 2007-2009,
- M.S. University of Zagreb, Croatia, 2003.
- Teaching Assistant, University of Zagreb, Croatia, 1999-2007.
- B.S. University of Zagreb, Croatia, 1999.

2.) Marin Pichler
Assistant Professor at Goucher College, Silver Spring, Maryland, Washington D.C. 2005. ->
- Visiting Assistant Professor, Loyola University in Maryland, 2004.-2005.
- Research Associate, NIST 2002.-2004.
- Post doctoral research associate, Rice University 2001.-2002.
- University of Connecticut, PhD, Physics, 1995 – 2001
- Faculty of Science, University of Zagreb, Croatia

3.) Slaven Garaj
Assistant Professor, National University of Singapore, 2012. ->
Principal Inverstigator - Garaj Group, Nano/Bio Physics Laboratory, NUS
- Harvard University · Department of Physics
- PhD from Swiss Federal institute of Technology Lausanne (EPFL), Switzerland

4.) Roberto Passuello
UNIX System Administrator at Elettra-Sincrotrone Trieste S.C.p.A., Italy
- System Administrator at Osservatorio Astronomico di Asiago
- Università degli Studi di Padova,
- Istituto Tecnico Industriale "A. Malignani" - Udine

5.) Nikola Biliškov
Laboratory for solid state and complex compounds chemistry, Institure Ruđer Bišković, Zagreb
- PhD, University of Zagreb, Faculty of Sciences and Mathematics, 2001 - 2009
- B.S., University of Zagreb, Faculty of Sciences and Mathematics, 1993 - 1999

6.) Goran Zgrablić
Laser/spectroscopy expert at Sincrotrone Trieste, Trieste, Italy
Gourmet vagabond and passionate wine lover with a degree from Italian Sommelier Association
- PhD, Physics, Ecole polytechnique fédérale de Lausanne, 2001 – 2006
- Physics, University of Zagreb, 1993 – 2000

7.) Alan Pevec
Senior Software Engineer at Red Hat, 2007. ->
- Senior Consultant at Red Hat, 2002. – 2007.
- Developer, ArsDigita, 2001 – 2002
- System Engineer, Zagrebacka banka, 2001 – 2001
- Database Administrator, Varazdinska banka, 1995 – 2001
- University of Zagreb 1990 – 1994

8.) Silvija Gradečak
Principal Investigator - Gradačak Group, Massachusetts Institute of Technology
Thomas Lord Associate Professor of Materials Science and Engineering, MIT
- PhD in Physics, Interdisciplinary Center of Electron Microscopy, Swiss Federal Institute of Technology (Lausanne, Switzerland) 2003:
- Diploma in Physics, Department of Physics, Faculty of Science, University of Zagreb (Zagreb, Croatia), 1999

9.) Dejan Vinković
Executive Director at the Science and Society Synergy Institute, 2011 ->
Associate Professor at the Physics Department, University of Split, 2007 ->
- Visitor at the Institute for Advanced Study, Princeton, 2006-2007.
- Member at the Institute for Advanced Study, Princeton, 2003-2006
- PhD (Physics) , Department of Physics and Astronomy, University of Kentucky, 1997-2003.
- B.Sc. (physics), Department of Physics, Faculty of Science, University of Zagreb (Croatia) , 1991-1996

10.) Petar Radovan
Physics teacher, retired
Entrepreneur and Owner of "Fosil" metal works office

11.) Renato Železnjak
Project manager at Ekobit
- Computer Science, FER, University of Zagreb, 1994 – 1999

12.) Vanja Brčić
IT department manager Liburnia Riviera Hoteli d.d. 2011.->
Entrepreneur and Owner at "Navacom", 1998. ->
- IT department manager, Riviera Porec d.d. 2001 – 2011.
- IT manager Laguna Commerce d.d., 1998 – 2001.

13.) Marina Brozović
senior scientist at the Jet Propulsion Laboratory, Pasadena, California Caltech 2003.
PhD in physics, Fermilab -2002, alma mater" Duke University

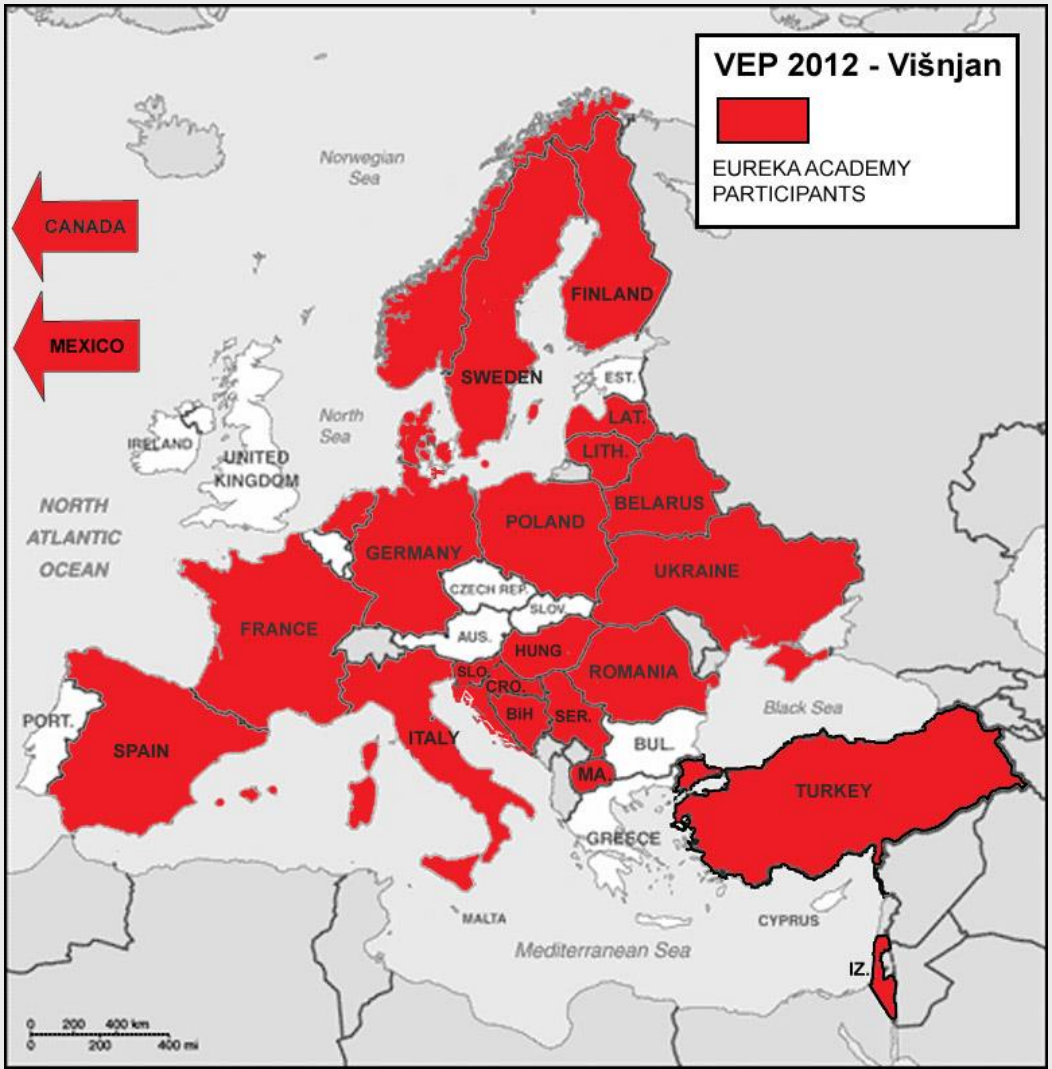
14.) Olian Peršurić
First Aid Center Poreč

15.) Vanja Rodiger
Entrepreneur and Owner at Kopiralica d.o.o. , 2010. ->
Frelance photographer and Graphic Designer
- Faculty of Organization and Informatics, Varaždin, Croatia.

16.) Giovanni Sostero (18 March 1964 – 6 December 2012)
- Remanzacco Observatory
- Sincrotron Elettra
- over 1880 NASA ADS citations for his work

17.) Mirna Franić
- International Affairs - Coordinator at IFAD, Coordinator/GB office at IFAD IFAD - International Fund for Agricultural Development Rome, Italy |
- Master's Research, Chemistry Department, University of Central Florida, Orlando, FL, 2001- 2004.
- Chemistry, Faculty of Science, University of Zagreb, Croatia, 2001.

18.) Sandra Hercigonja
teacher.



EDUKACIJA

VEP 2012

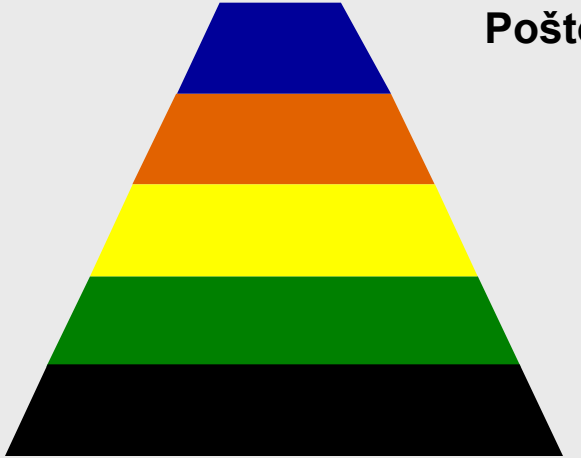
- *YSC 1 – Vip*
- *YSC 2*
- *YSC 3 – Bistrini istraživači*
- *S3 - Summer School of Science*
- *S3 ++ - Sum. School of Science*
- *VSA - Visnjan School of Astronomy*
- *Leo camp*
- *eXplora – Mladi istraživači*

24 zemlje

Što mlade danas motivira?

Maslowljeva hijerarhija potreba

Tradcionalna



Poštovanje i samorealizacija

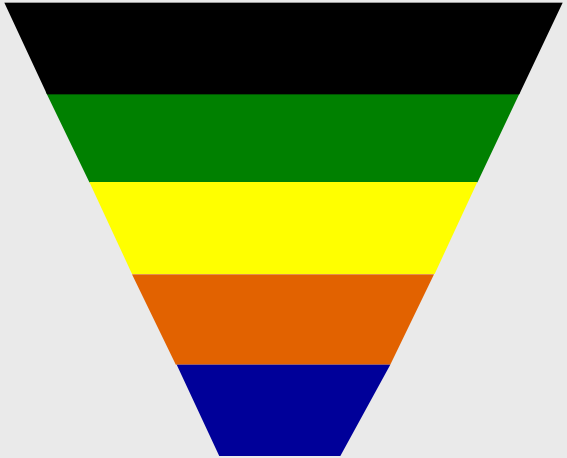
Samo-poštovanje

Socialne potrebe

Sigurnost

Fizičke potrebe

Moderna



by Rolf Jensen

MOTIVACIJA

BAZIČNA:
kisik
voda
hrana
potreba za spavanjem i odmorom
zaštita od atmosferskih utjecaja
seks
fizička sigurnost
……..

MOTIVACIJA RASTA:
potreba za “ljubavlju” i druženjem
pripadnost grupi
samopoštovanje
postignuće
kompetencija
reputacija
status
prestige
potreba za zadovoljavanjem radoznalosti
istraživati
otkrivati
……

Što motivira darovite ?

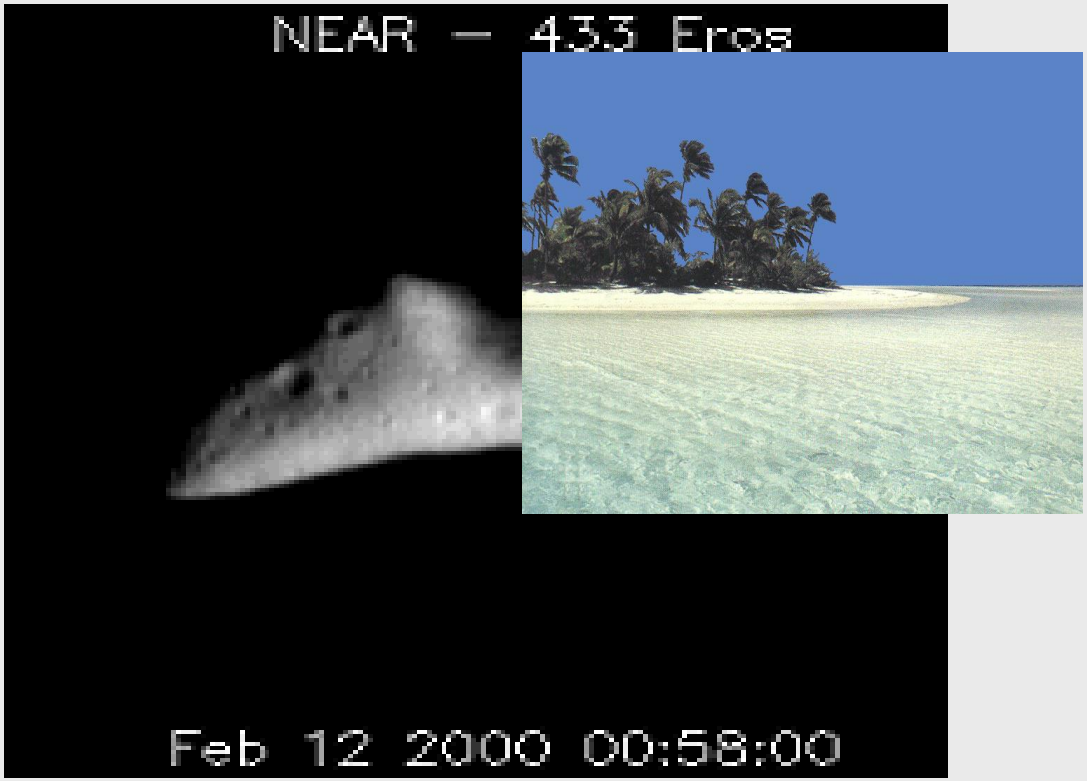
Achievement, curiosity, explore, discover

For the gifted population the hierarchy of motivation is radically different! Some **growth needs** are so important, that overcome some **basic needs.** The syndrom is known as the **“Addiction of discovery”**

“Where no **man has gone before**”

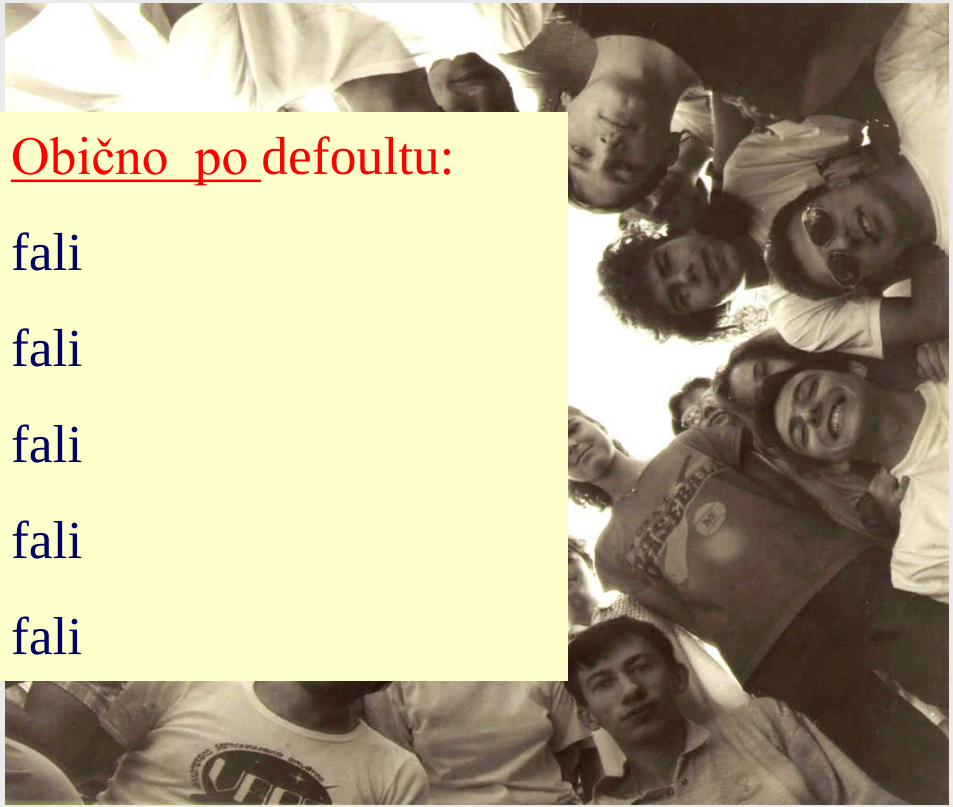
Small Bodies of the Solar System

“Where no **man has gone before**”



Problemi s kojima se srećemo u edukaciji darovitih učenika

- Motivacija ……..
- Inspiracija ……...
- Kreativnost ……
- Grupni rad …….
- Podrška zajednice …



Obično po defoultu:

fali

fali

fali

fali

fali

NOVA PITANJA:

Od svih darovitih učenika, iznimno malo njih manifestira svoju darovitost. Gdje griješimo ?

- *obitelj?*
- *školski sustav?*
- *društvo?*
- *.....?*

Koliko rano se mladi mogu početi baviti znanošću ?

Baviti se znanošću ?

ZNANSTVENA METODA !

Znanstvenom metodom opisivati svijet

- UNESCO – na fakultetu
- EU fondovi – na fakultetu
- Prijedlog strategije istarske županije – na fakultetu
- HPD “E-škola”, Krunoslav Pisk:

“Nemaju se oni što baviti znanošću, dok ne završe fakultet !"

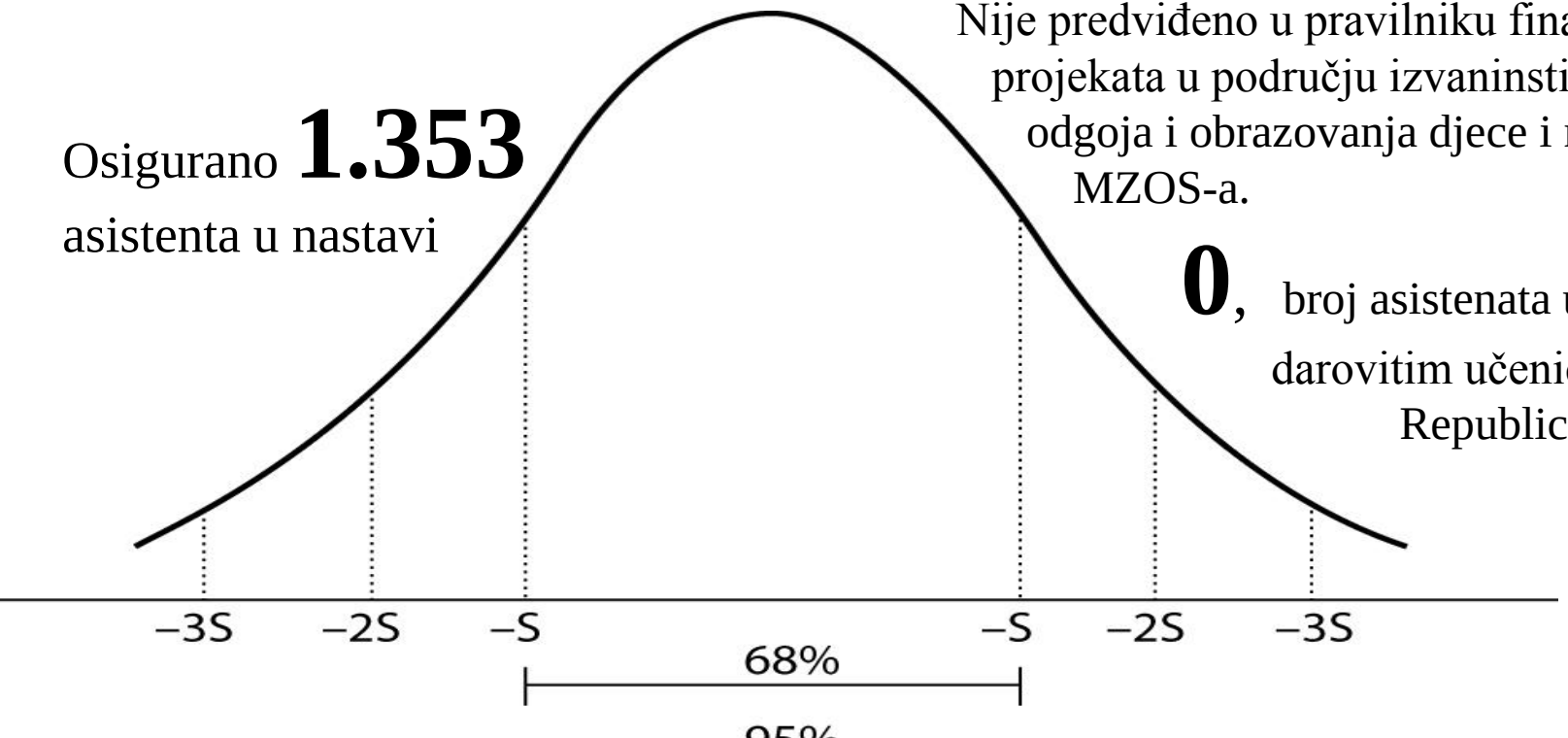
Republika Hrvatska

2014. osnovne i srednje škole

Osigurano **1.353** asistenta u nastavi

Nije predviđeno u pravilniku financiranja projekata u području izvaninstitucionalnog odgoja i obrazovanja djece i mladih MZOS-a.

0, broj asistenata u radu s darovitim učenicima u Republici Hrvatskoj



ZNANSTVENA METODA

- 1.) uočavamo problem:

  2.) postavljamo hipotezu:

  3.) provjera hipoteze, eksperiment:

  4.) postavljanje pravila:

  5.) ponavljanje eksperimenta
  i potvrda hipoteze od strane
  drugih "istraživača"

PROMATRAMO VRT

Nitko ne bere male i zelene jabuke!?

Valjda nisu dobre za jelo?

Uberemo nekoliko komada i zagrizemo.

Dok su jabuke male i zelene nitko ih ne bere jer su bljak!

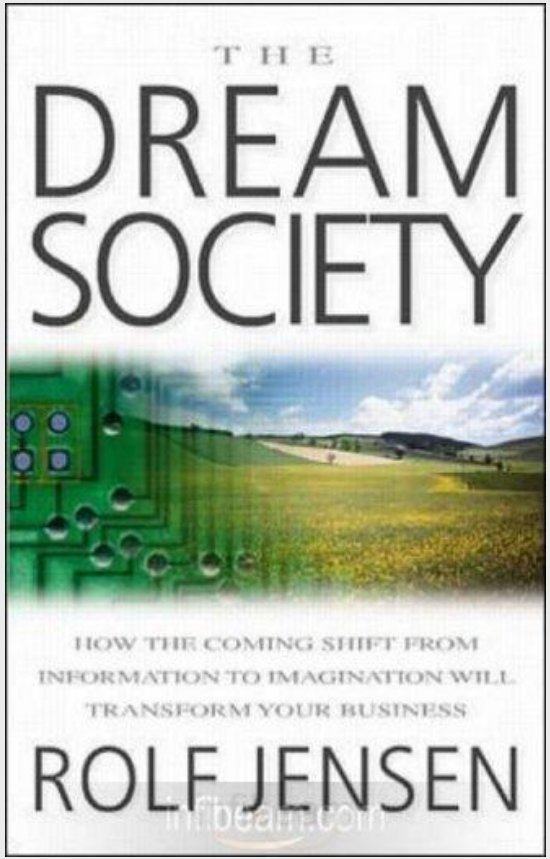
NGO

- Znanstveni piknik
- Festival znanosti
- Famelab
- Otvoreni dan ……
- Noć muzeja
- AstroNoć
-Visnjan science day
- ……


© Gregor Kervina

Rolf Jensen


DŽABA STE
KREČILI


THE
DREAM
SOCIETY
HOW THE COMING SHIFT FROM
INFORMATION TO IMAGINATION WILL
TRANSFORM YOUR BUSINESS
ROLF JENSEN

PREMISA:

Ljudsko društvo je postalo kompleksan i sustav koji se može održavati samo znanjem i razvojem

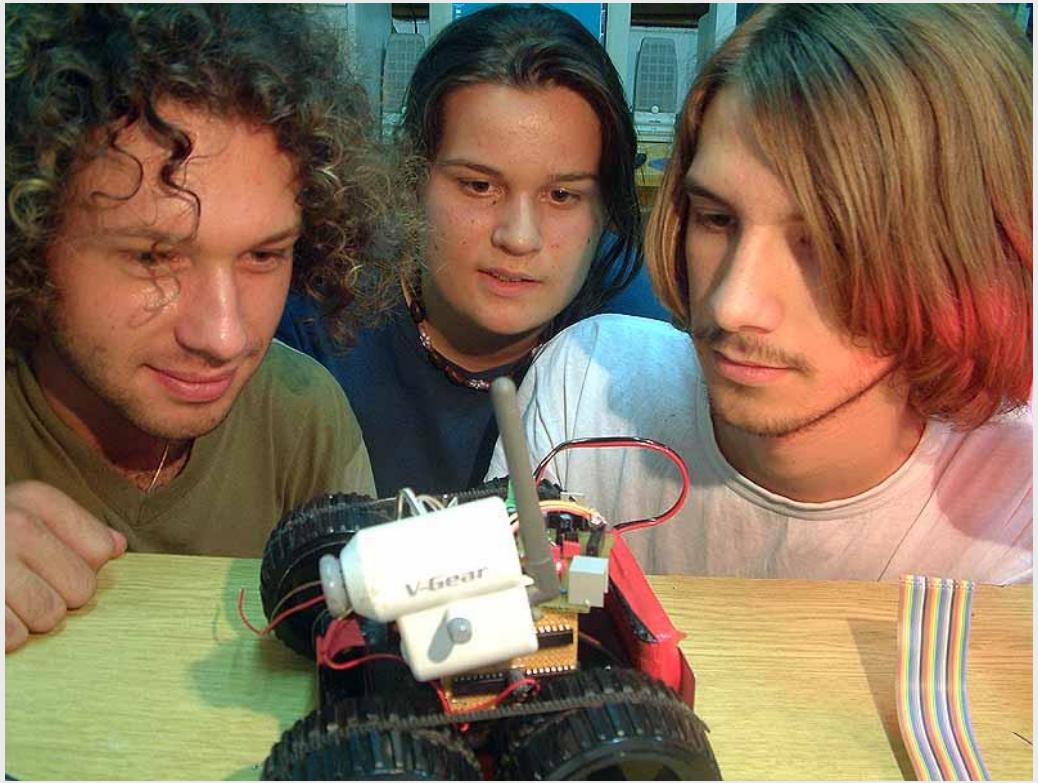
ČINJENICA:

~ 5-10 % učenika ima izuzetne sposobnosti (talent) za područja znanosti i tehnologije.

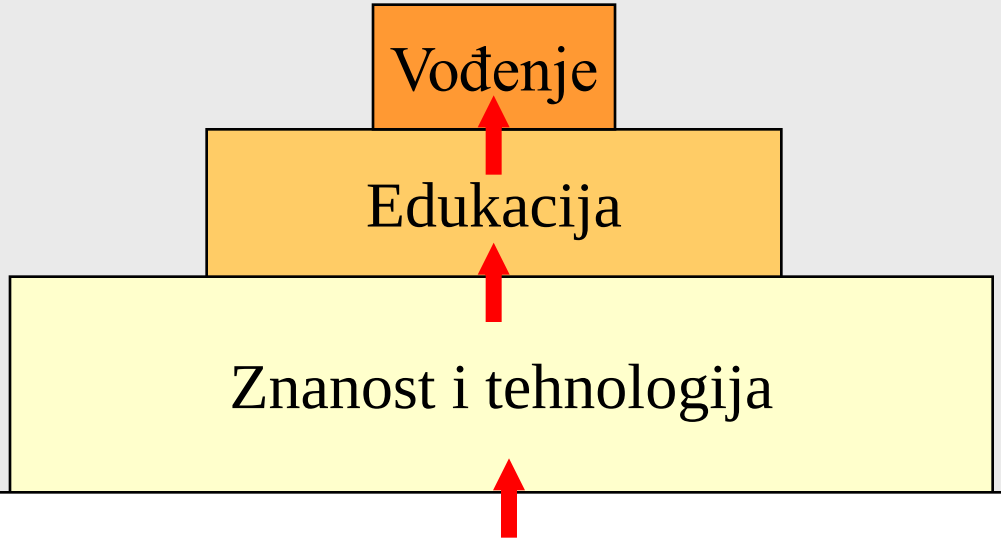
~ 2% je darovito

~ 0.2 % ima liderske sposobnosti

..... darovitost koja čeka na buđenje!



Stupnjevi evolucije sposobnosti u svjetu kompleksnih sustava



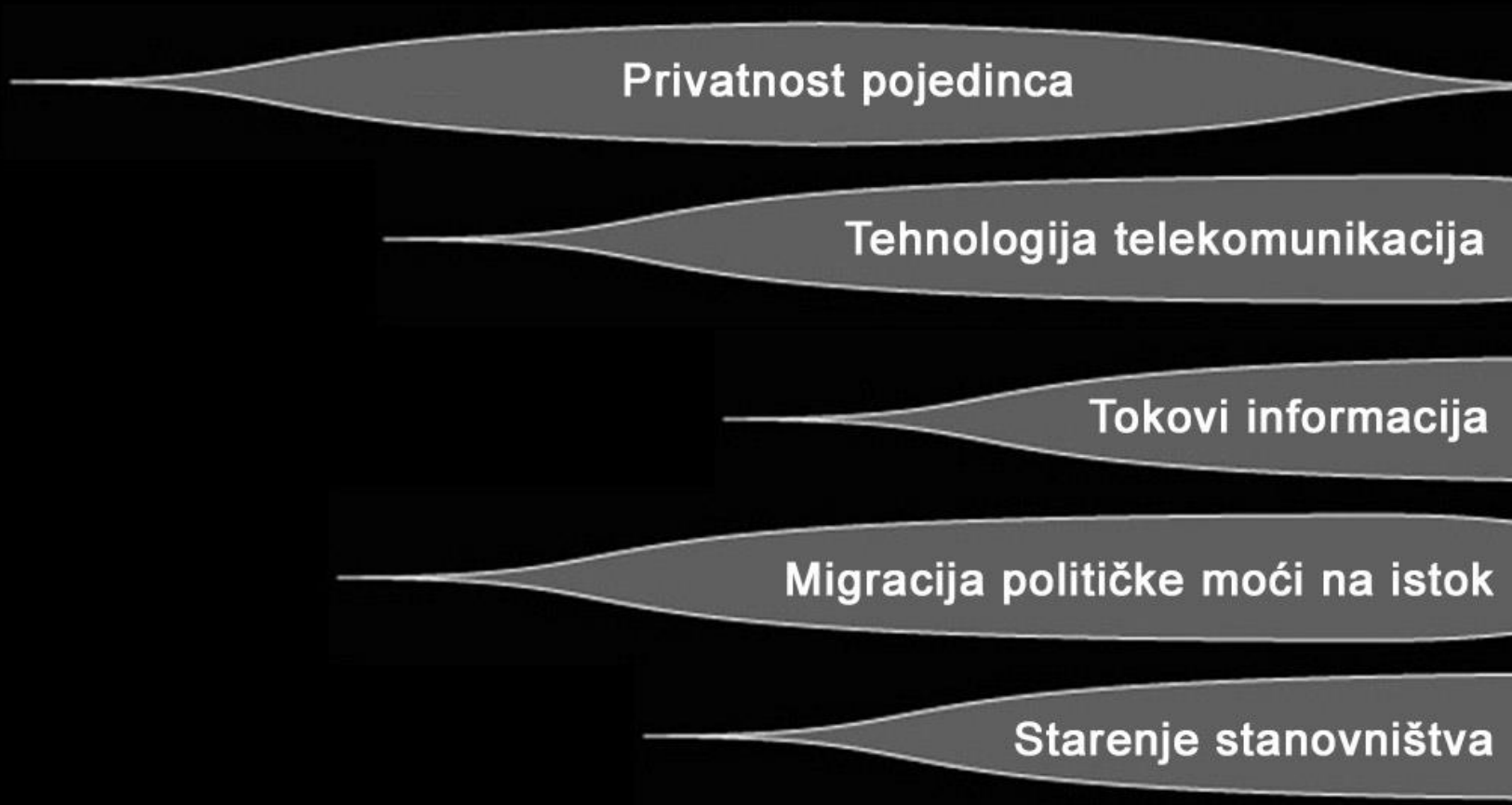
- Gdje su i kamo nestaju daroviti u svakodnevnom životu ?
- Zašto se ta darovitost ne manifestira kod svih?
- Kako ih otkriti?
- Kako ih motivirati?
- Kako ih zaštititi?
- Imamo li mi pravo to raditi?
- .....

Školski sustav

EDUKACIJA

odgoj za budućnost

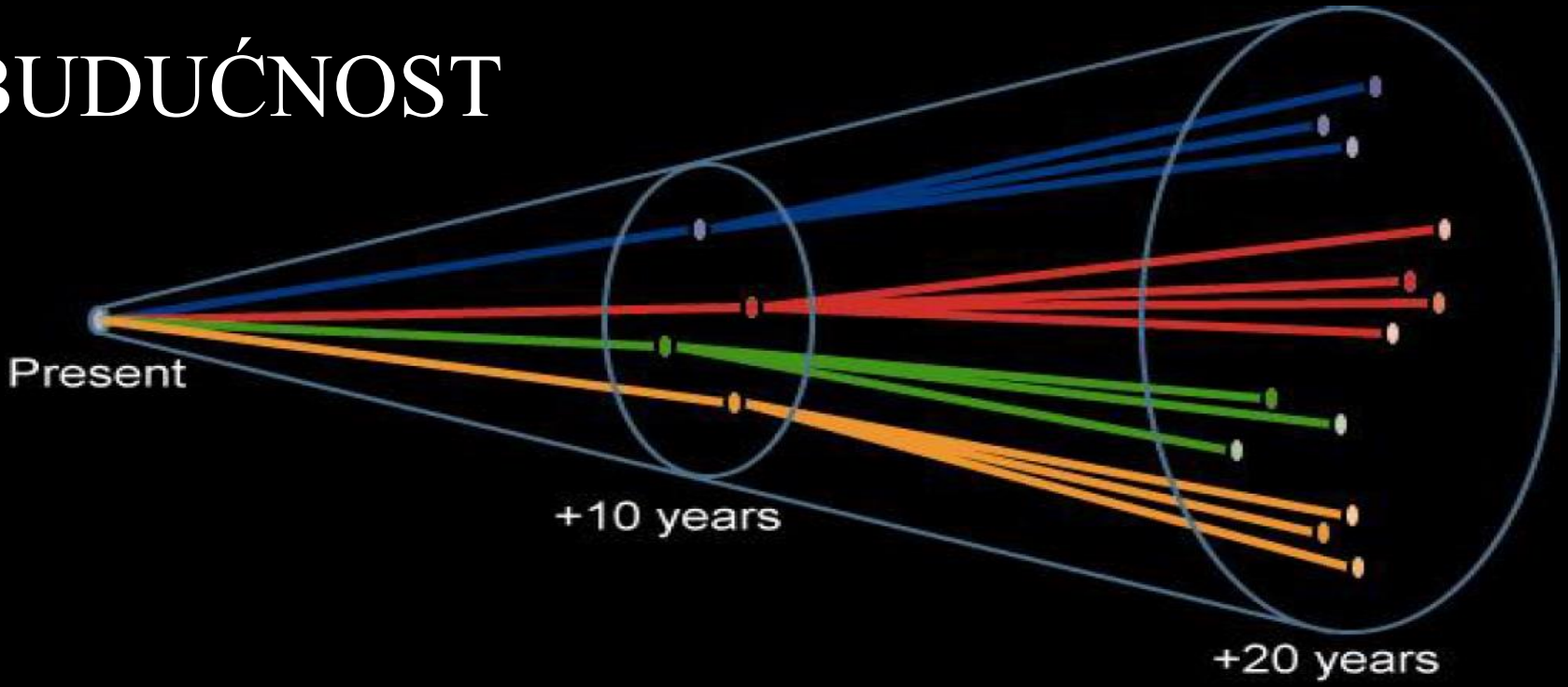
djecu treba odgojiti i osposobiti za društvo koje dolazi



FUTUROLOGIJA

inteligencija – sposobnost predviđanja budućnosti

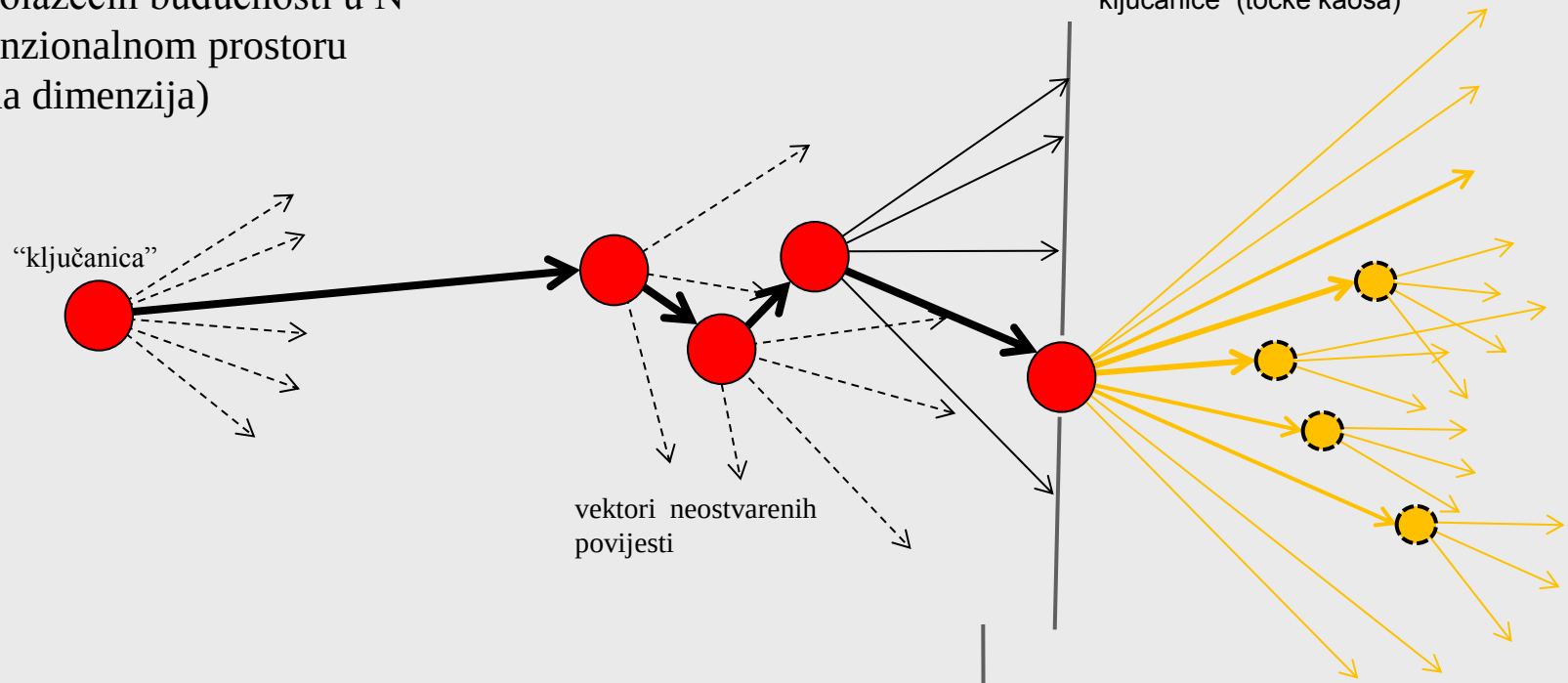
BUDUĆNOST



Future cone - (in "N" dimensional space), a method for visualizing possible, probable, and preferable futures.

Psychohistory - is a science described in Isaac Asimov's Foundation universe which combines history, sociology, and mathematical statistics to make general predictions about the future behavior of very large groups of people.

VEKTORI bivših prošlosti
i nadolazećih budućnosti u N
dimenzionalnom prostoru
(jedna dimenzija)

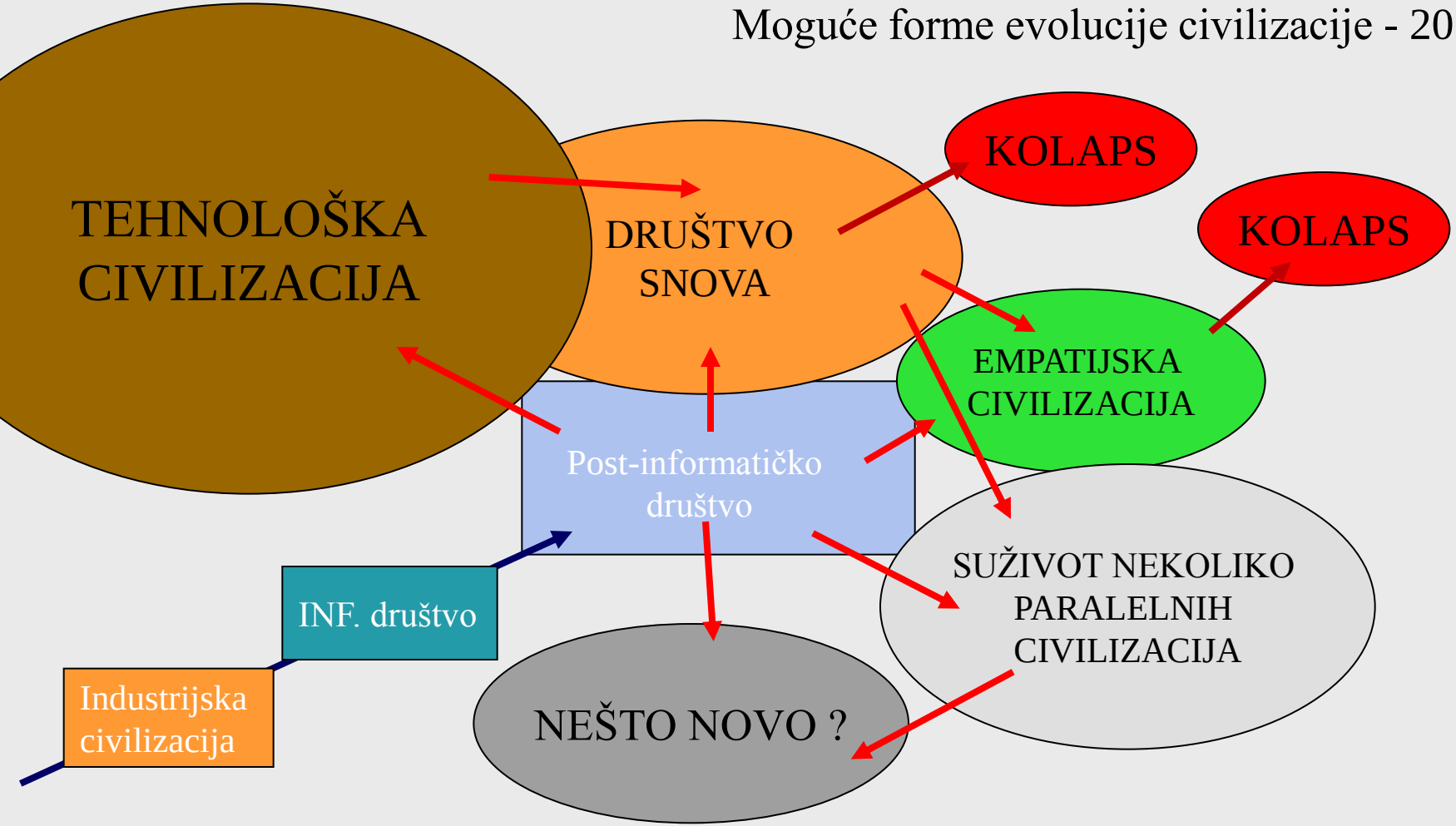


PROŠLOST

sve moguće BUDUĆNOSTI

kao vektori vjerojatnosti ostvarivanja
i moguće "ključanice"

Moguće forme evolucije civilizacije - 20 g.



Koliko rano ?

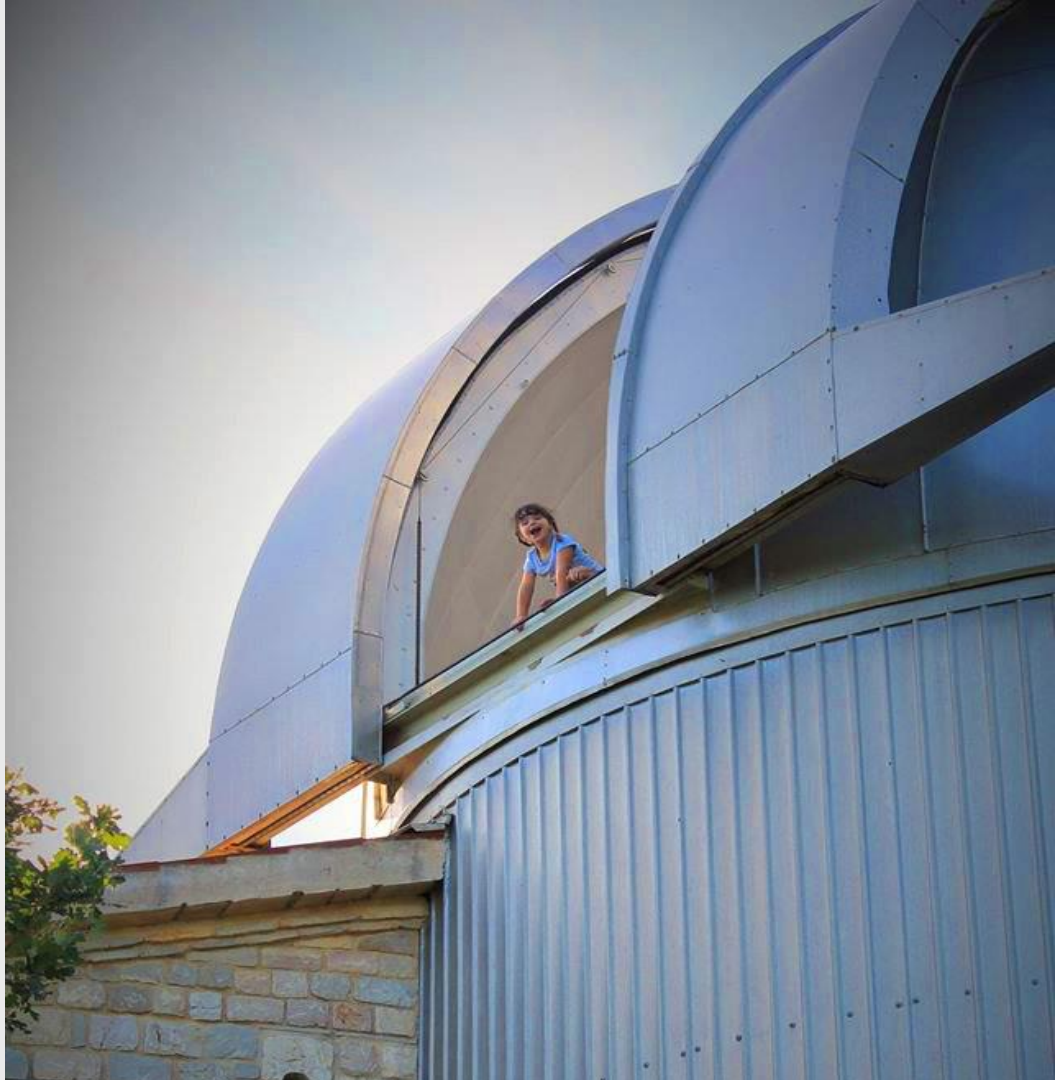
Nema rano, odmah, stalno, živjeti znanstvenu metodu

Gabriela Ruso,
Jesen, 2015.
u maminoj kancelariji
2,5 g.

Ljuba Gamulin,
ljeto, 1942.
u tatinom laboratoriju
(planktolog)
gleda "'akove" (rakove)

1,5 g

Znanstvena metoda i Sci/Tech okruženje ……stalno



Fedora Matejčić
ljeto, 2015.
u Zvjezdarnici Tičan,
tijekom posjete
Sci/Eco vrtića, 3,5 g.

Eksperimentalni edukacijski projekt Sci/Eco:

Waldkindergarten

ili znanstveni vrtić u šumi

poticanje razvoja, rasta,slobode, odgovornosti, suradnje, pripadnosti, ... kroz aktivnosti u prirodi.


Klub istraživača
mala,
ali
glasn

LISICE

Klub istraživača Explora

Klub istraživača
1.-.4. razred o.š.

YSC

ljetni kamp znanosti

3.- 8. razred o.š.

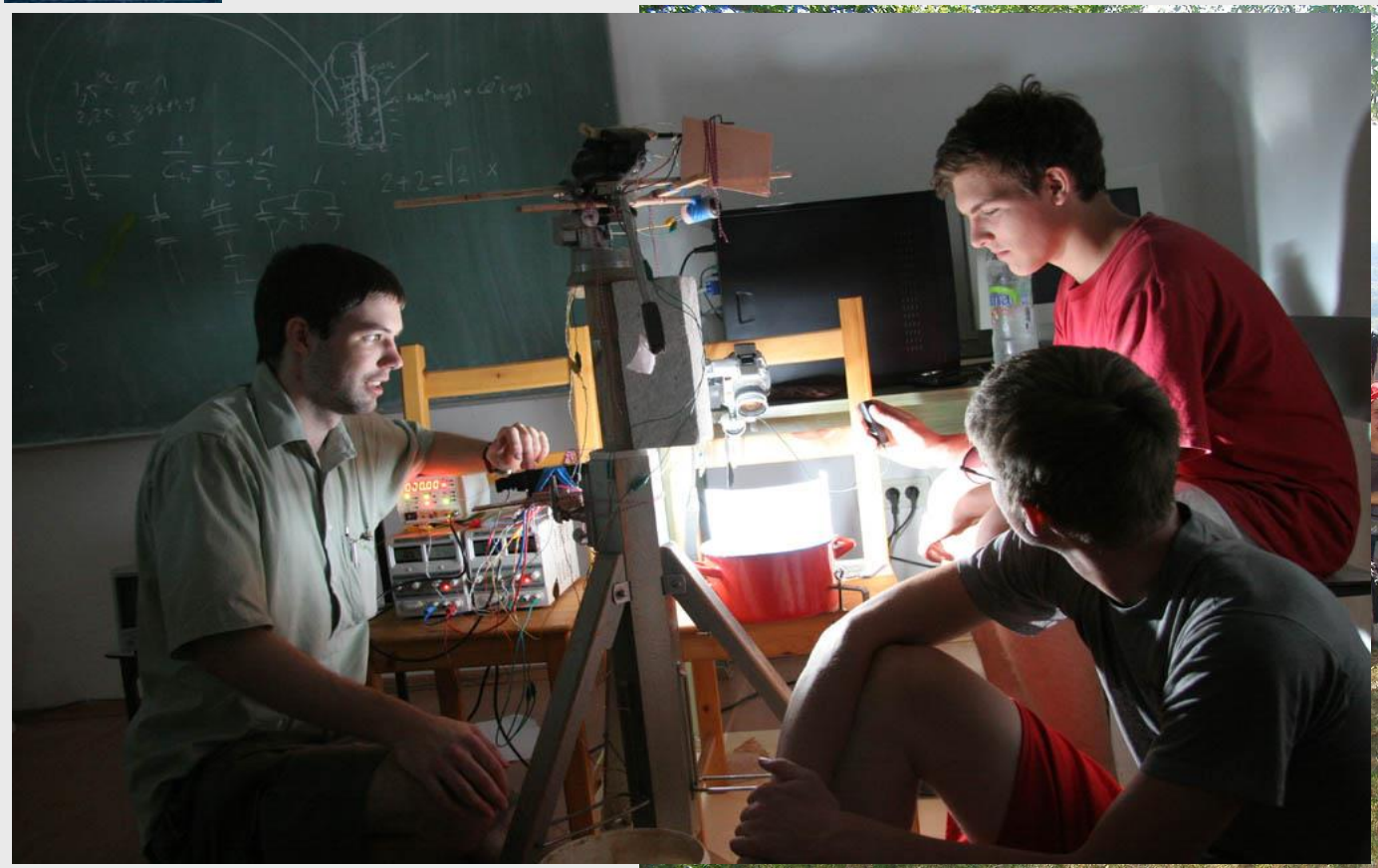

WAYNE

Marsha Sue Ivins (born April 15, 1951) - Engineer - American astronaut and a veteran of five space shuttle missions: STS-32, STS-46, STS-62, STS-81, STS-98

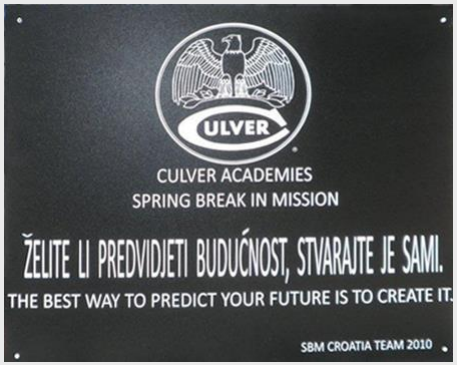

OPĆINA
VIŠNJAN

Summer School of Science

1.- 4.r. s.š.



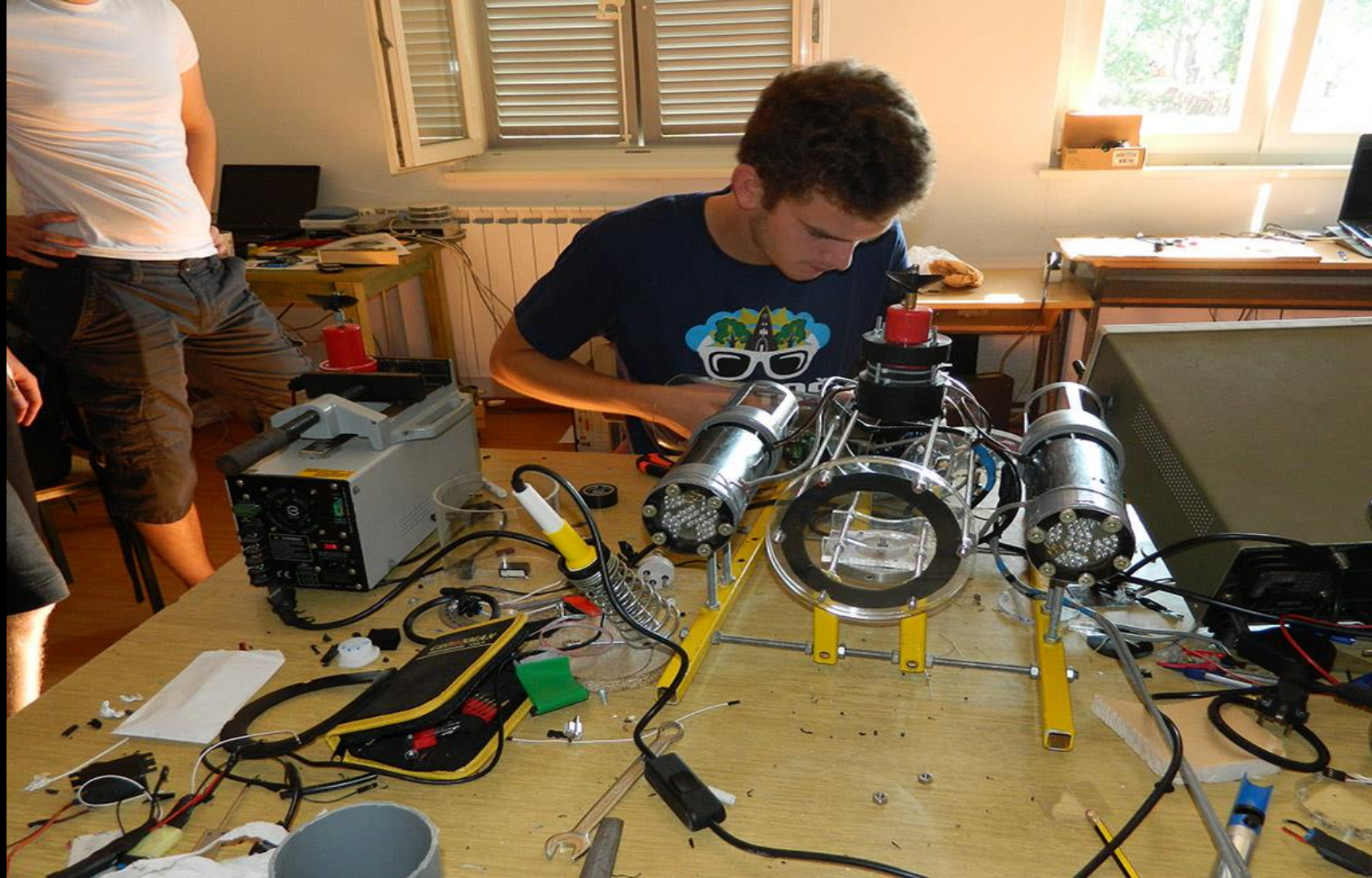
World United Colleges Project Week - Visnjan


ULVER
CULVER ACADEMIES
SPRING BREAK IN MISSION
ŽELITE LI PREDVIDJETI BUDUĆNOST, STVARAJTE JE SAMI.
THE BEST WAY TO PREDICT YOUR FUTURE IS TO CREATE IT.
SBM CROATIA TEAM 2010

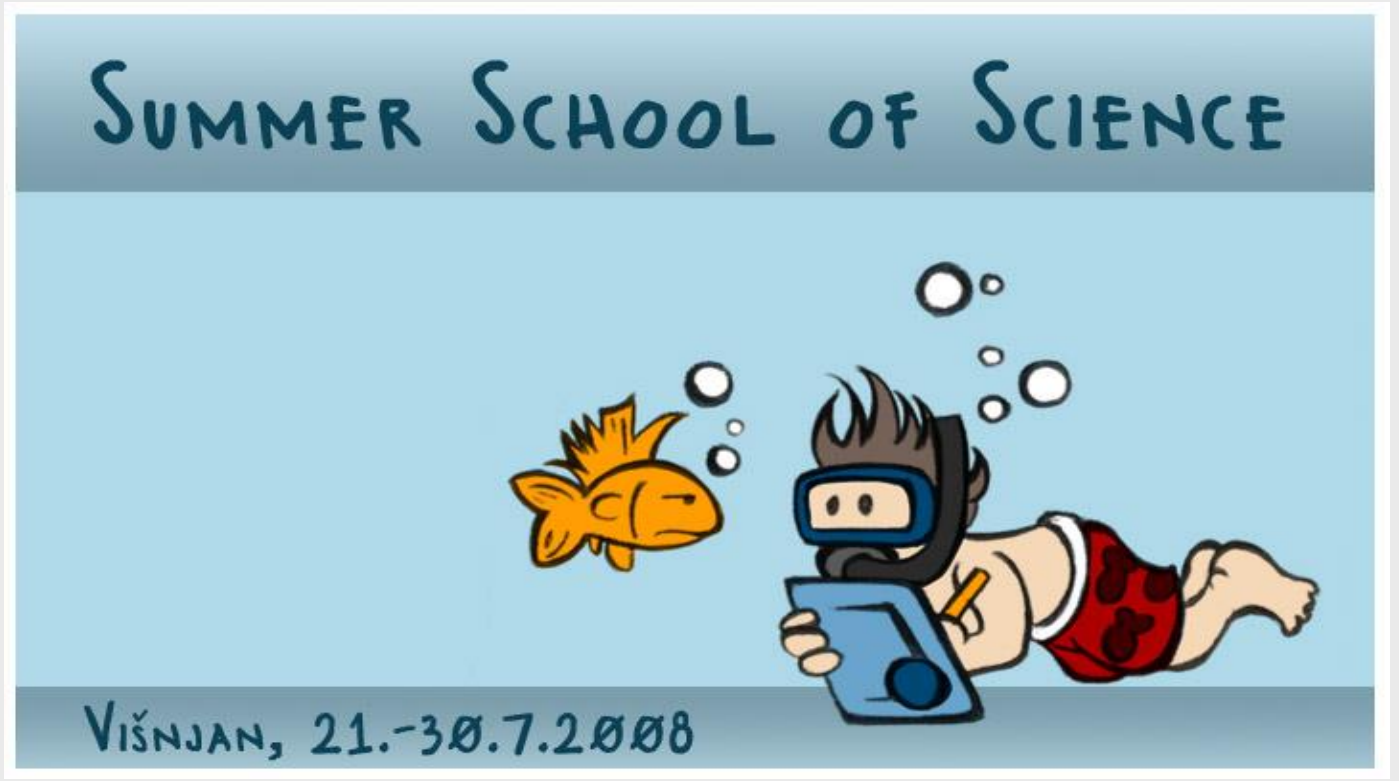
CULVER

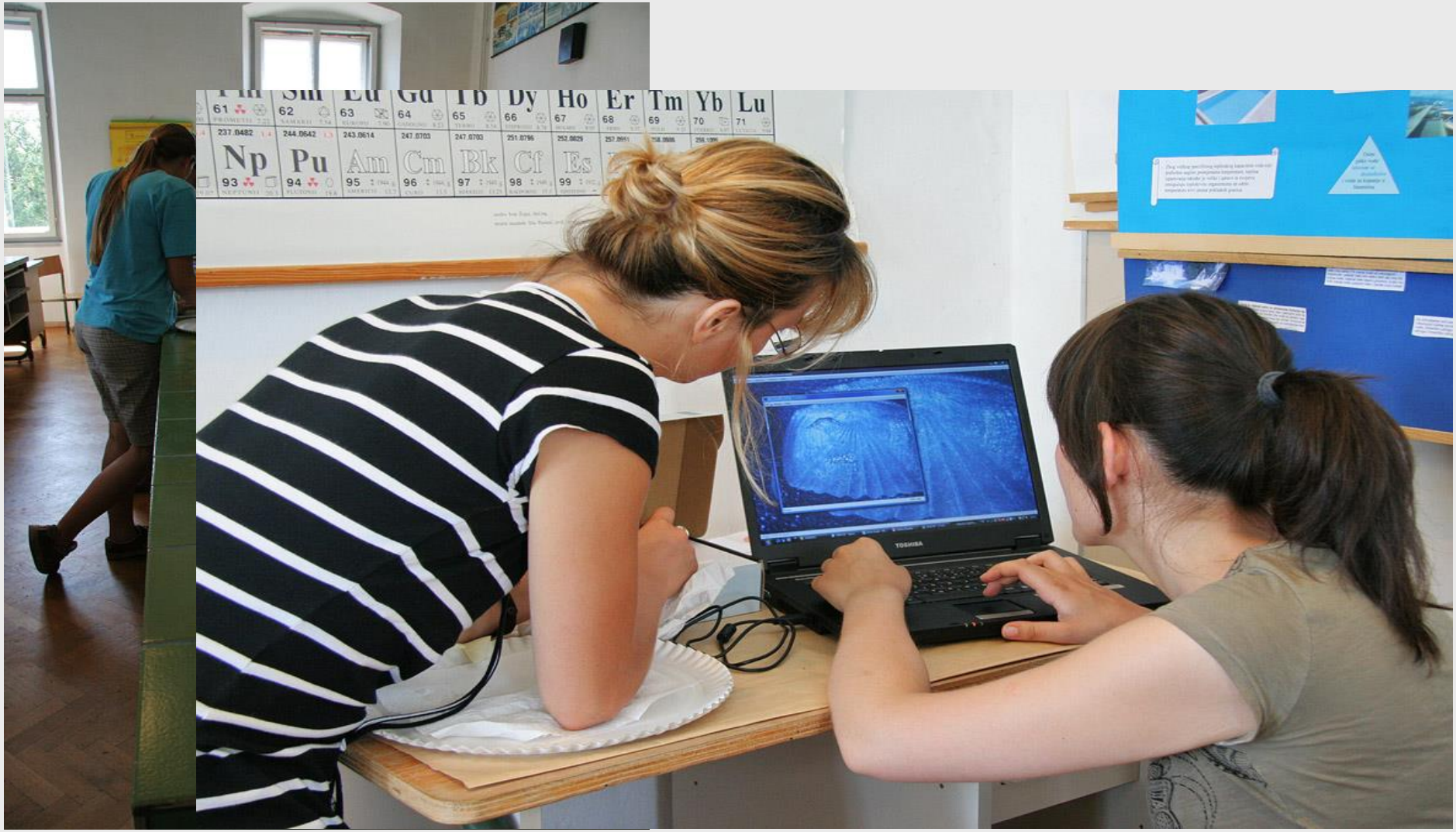

ULVR


ORDONEZ
ULIVER
ULIVER
UIVER



MARINE Biology

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TOSHIBA


Cressi
Cressi

Koji je ispravan način rada s mladima zainteresiranim za znanost?

KOPIRATI IZRAEL !

Izrael

The State of Israel

"Previše smo mali da nam i jedan talent propadne"

Ministry of Education
Division for Gifted and Outstanding Students

Budget/y 20.000.000 US$

HEMDA, Tel Aviv-Yaffo

Budget/y ~ 2.000.000 US$

Educational Environment

- 12 (18*) laboratories
- Challenging studies
- Enrichment projects
- Contemporary science
- Individual tutoring

Teacher:
“If something goes wrong- I have no one to blame- but myself..”

Ili barem SRBIJU …….

Srbija

Млади истраживачи Србије

2005. - 650 učenika i studenata godišnje sudjeluje na međunarodnim kampovima

- 3,000 učenika i
- 700 nastavnika obuhvaćeno je posebnim, višednevnim edukacijskim programima samo pri ISP-u.

ISP budžet 2006.
650.000 EUR

Stari kampus Istraživačke stanice Petnica, Valjevo

Novi kampus Istraživačke stanice Petnica, Valjevo ***9.000.000 EUR***

Nikako ne nastaviti sa HR modelom!

Velike razlike u pogledu na:

“Hrvatsku kao društvo bazirano na znanju":

UNUTAR R. HRVATSKE:

- Država,
- Građanstvo
- Kompanije
- Crkva (vjerske organizacije)
- NGO-i (ne vladine organizacije)

Agencija za odgoj i obrazovanje
Education and Teacher Training Agency

URED ZA MLADE
HRVATSKE BISKUPSKE
KONFERENCIJE

DUHOVNA SCENA
ON LINE
www.duhovna-scena.com

Nametnut pogleda na: “Hrvatsko društvo bazirano na znanju":

IZVAN R. HRVATSKE:

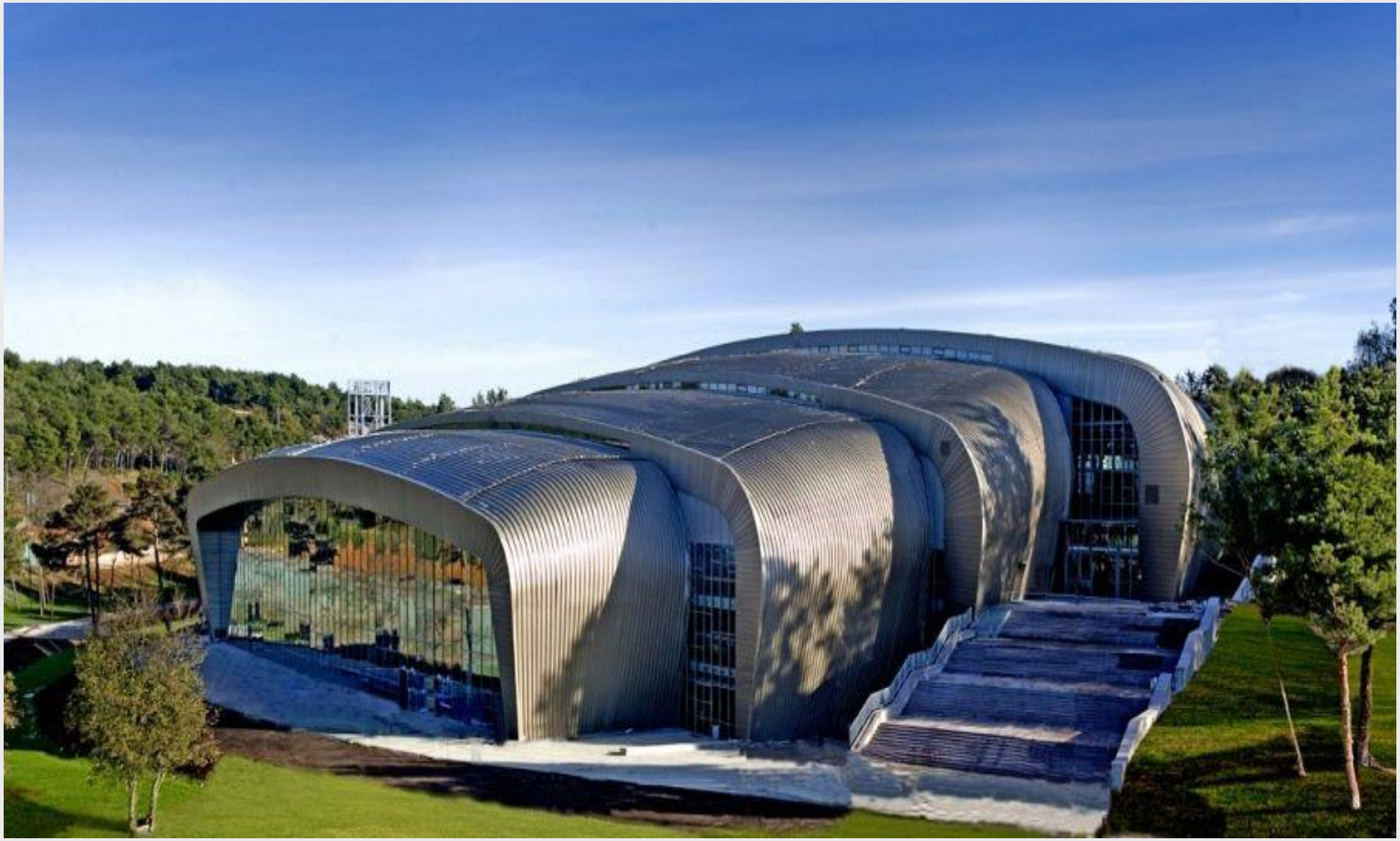
- Europska komisija (European Council)
- NATO/OTAN - USA
- M. kompanije, pojedinci, grupe
- Strani edukacijski lanci.
- Strane Sci/Tech zaklade, kulturni centri
- Antiglobalizacijski/ekološki pokreti

Sportska dvorana Žatika ,

16,5 milijuna EUR

32 godina vrhunske edukacije za buduće nositelje znanstveno tehnološkog razvoja …… kojeg neće biti u R. Hrvatskoj

SAMODESTRUKCIJA:
nacionalna razina



SAMODESTRUKCIJA:
lokalna razina

20 godina vrhunske edukacije za buduće nositelje znanstveno tehnološkog razvoja, kojeg neće biti u Istarskoj županiji *

* Jedina županija u RH koja ima program tog tipa je Varaždinska županija

Koje kompetencije moraju imati obrazovatelji (edukatori) ?

1.) Moraju biti članovi skupa kojeg educiraju
2.) .....

- Što bi trebalo učiniti Sveučilište da bude više izvanškolskih programa za srednjoškolce i da ih se više uključuje u te programe?

- Što bi trebala učiniti država?

- Što od Sveučilišta trebaju oni koji rade s mladima?

MREKINUTI MONOPOL I DOZVOLITI DA HRVATSKA BUDE DRŽAVA JEDNAKIH ŠANSI !

- i sveučilište
- i država

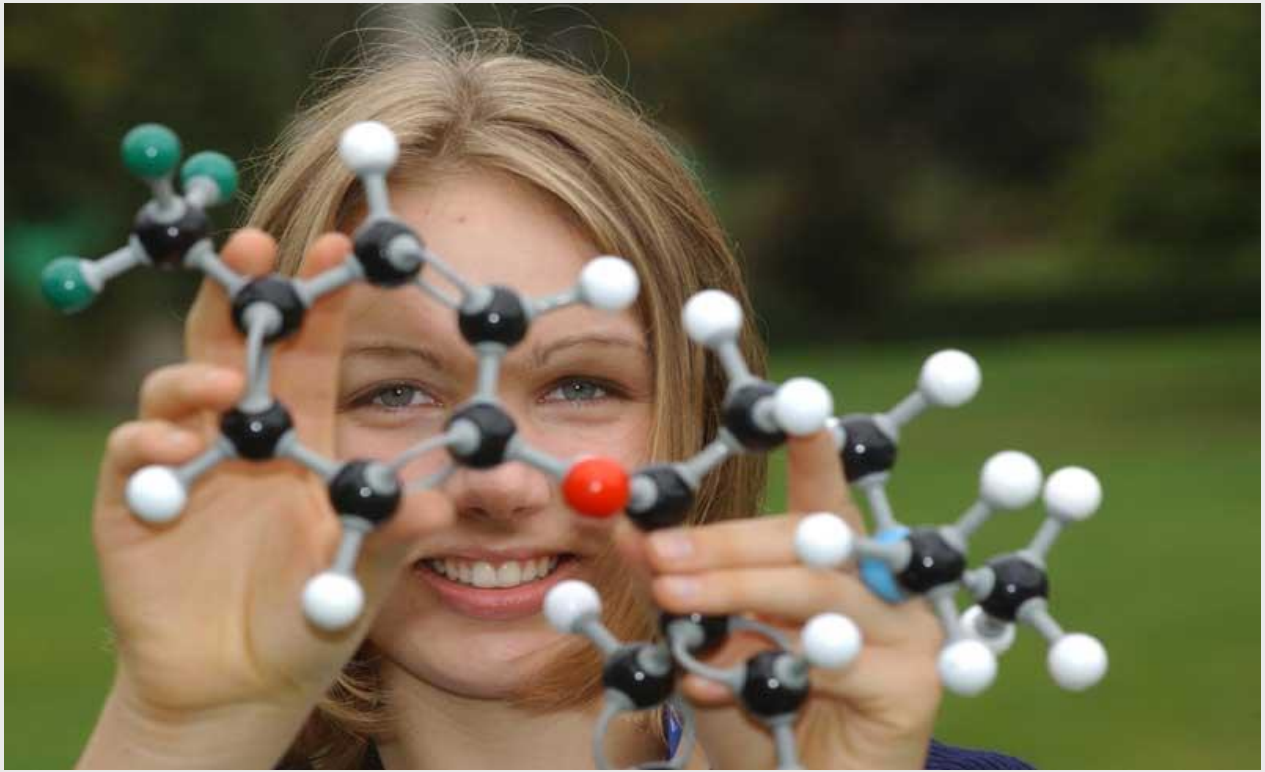
ZVJEZDARNICA VIŠNJAN

- Po zakonu ne spada u hrvatske znanstvene ustanove,
- ne spada u hrvatske edukacijske ustanove,
- nema pravo pristupa natječajima MZOS-a,
- nema pravo pristupa bazi OVID i drugim Sci. digitalnim bazama u HR,
- nema pravo prijave na natječaj sredstvima za razvoj društva, Hrvatske lutrije,
- u djelatnosti rada ne smije stajati: “ projektiranje i izrada astronomske optike”,
- mora plaćati porez na “dobit” 20%,
- mora biti u sustavu PDV-a 25 %,
- Zvjezdarnica Višnjan je nonprofit, NGO organizacija.

European Union :

PREMISA: European Union,... a society based on knowledge

NIJE !



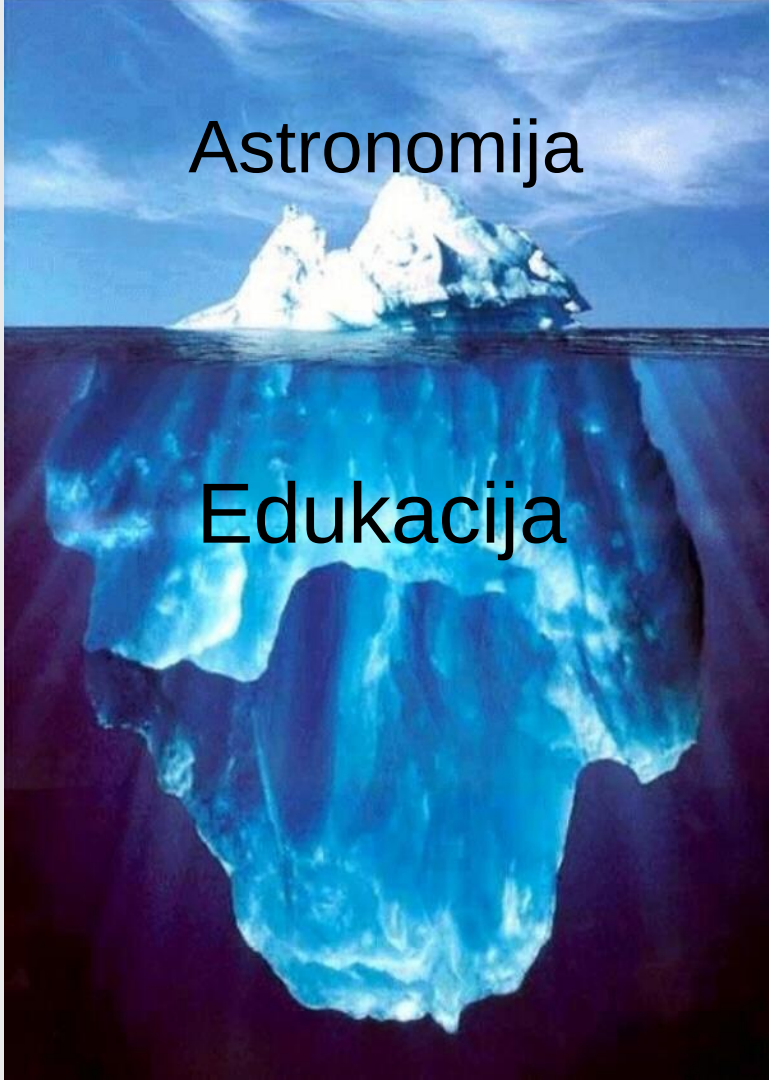
NATO

PREMISA: Security through Science.

ISTINA !

VEP

Višnjanski
Edukacijski
Projekt



ZNANSTVENO EDUKACIJSKI CENTAR VIŠNJAN

NYEX
NETWORK OF YOUTH EXCELLENCE - VISNJAN

ZVJEZDARNICA VIŠNJAN

EXPLORA
Klub istraživača

ACADEMY EUREKA
EXPEDITION RANGERS

Eureka

VSA

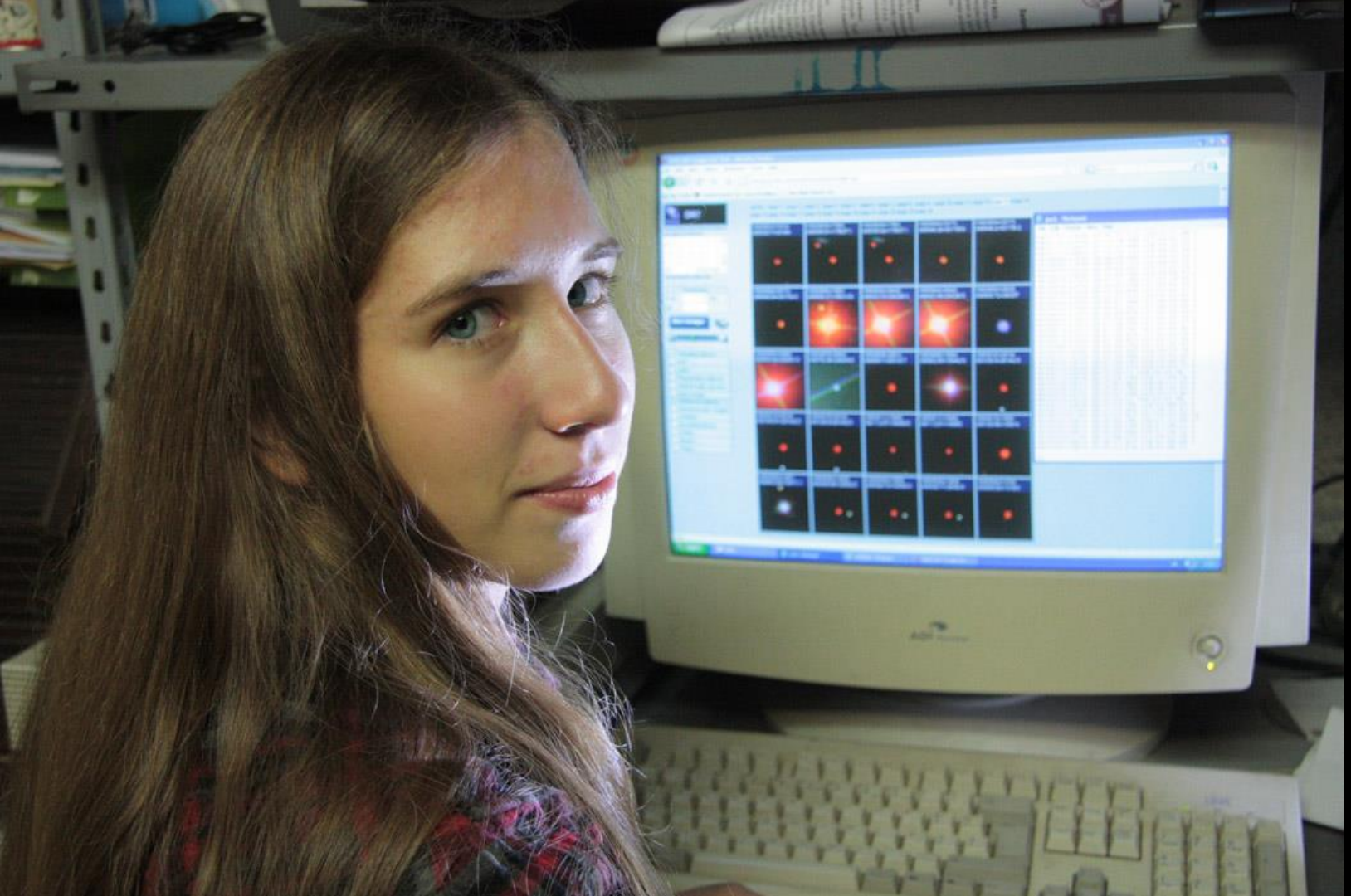
VIŠNJAN SCHOOL OF ASTRONOMY

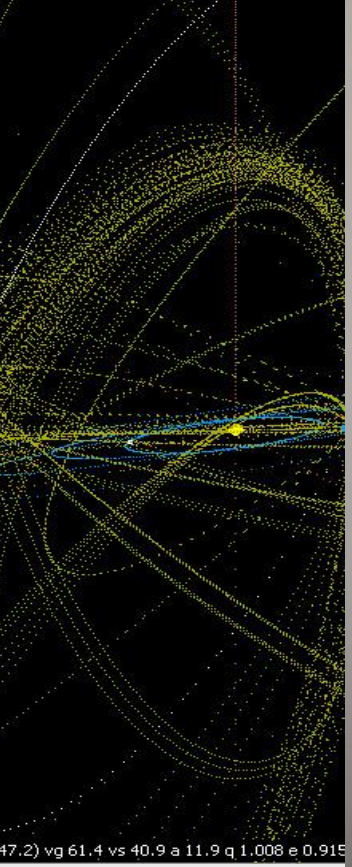
15.-25.8.2009.

(WWW.ASTRO.HR)

Astronomsko društvo Višnjan

VEP




47.2) vg 61.4 vs 40.9 a 11.9 q 1.008 e 0.915


MOTUS

Program 2016.

- Školski klubovi istraživača: Novigrad, Marčana, Višnjan Explorers Clubs, (1.-4.r. “Lisice”, 5.-8.r. “Istrazivaci”)
- Šumski vrtić – Sci – Waldkindergarten “Cuvete”
- Astronomy Nights
- Projekt “**ZA**”, edukacija nastavnika i mentora
- "Explora" - Radio program (HR)
- "Pod zvijezdama" – Radio program (Radio Istra)

SUMMER SCHOOLS:

- Youth Science Camps (YSC i, YSC II, YSC III)
- **VSA** - Visnjan School of Astronomy
- **S^3** – Summer School of Science
- **CAMPUS** - per le eccellenze scientifiche (I. II.) CNI

I DALJE NAM JE CILJ:

Motivirati, odgajati i podupirati djecu, da izraze svoju darovitost, te da “izrastu” u eksperte, edukatore i lidere sposobne stvarati i upravljati svijetom koji dolazi.

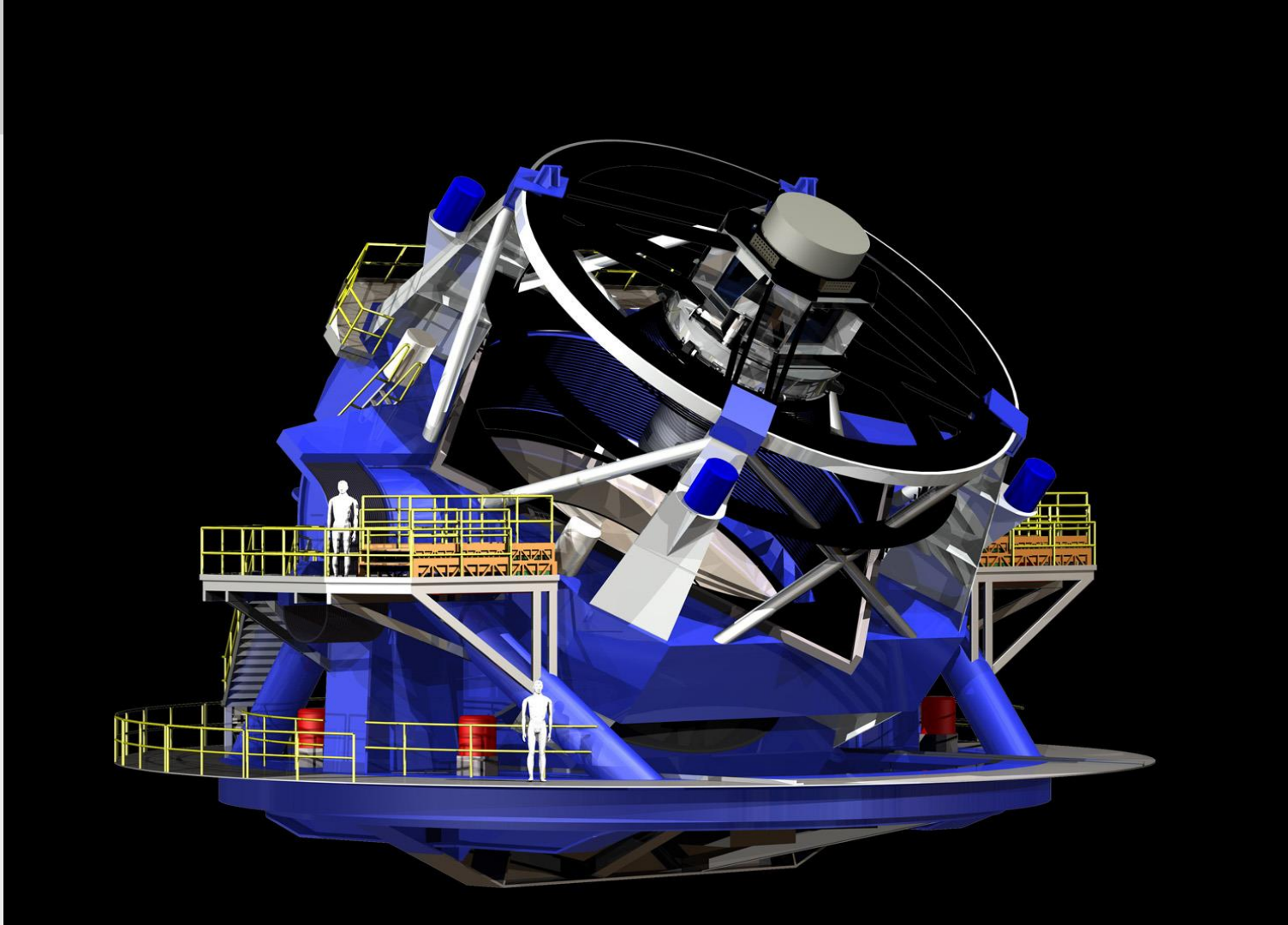
"Budi promjena koju želiš vidjeti u svijetu.“

Mahatma Gandhi

Zvjezdarnica Višnjan
Astronomsko društvo Višnjan
Znanstveno edukacijski centar Višnjan
Klub istraživača EXPLORA

Zahvaljujem na pažnji!

korado@astro.hr



Dr. Mario Jurić

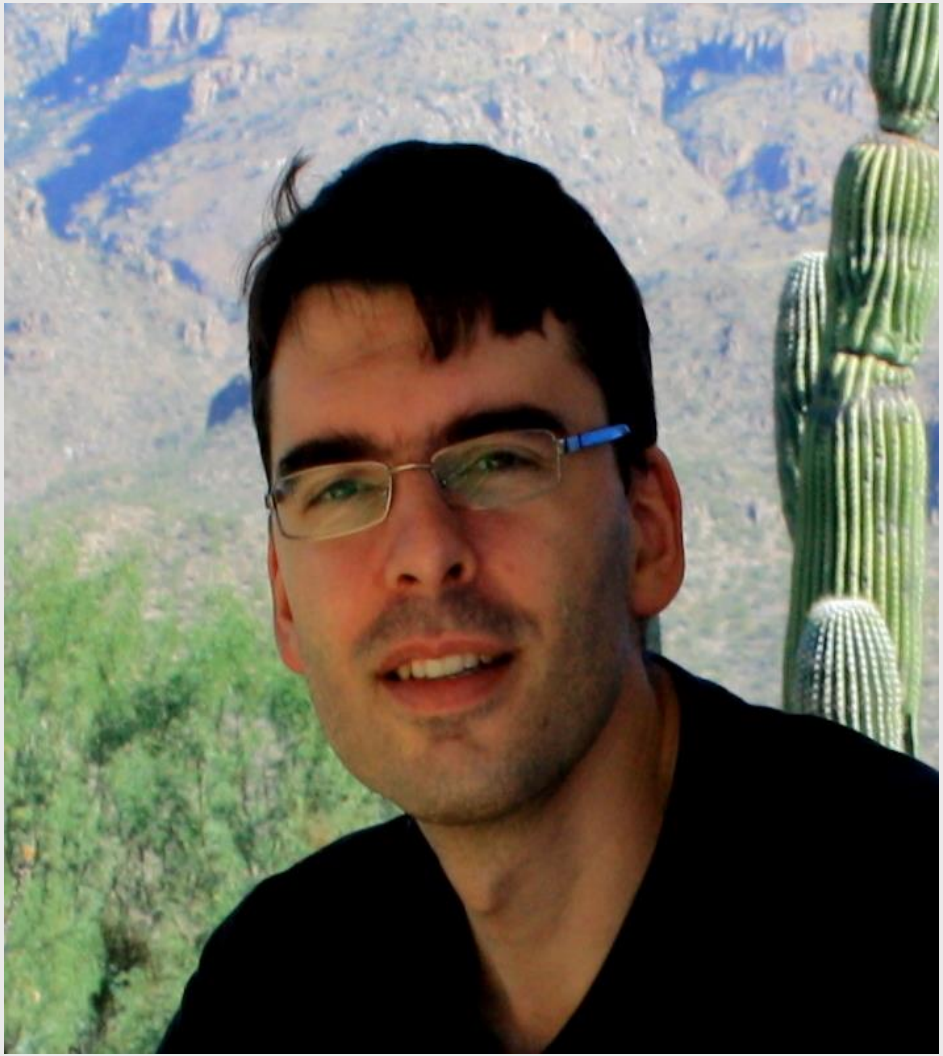
University of Washington, Professor of Astronomy
Large Synoptic Survey Telescope, Data Management
Project Scientist

Princeton University, Ph.D., Astrophysical Sciences (2007)

Institute for Advanced Study, Postdoctoral Member (2006 – 2009)

Harvard University, Hubble Fellow (2009 – 2011)

LSST/AURA, Associate Scientist (2012 – 2014)

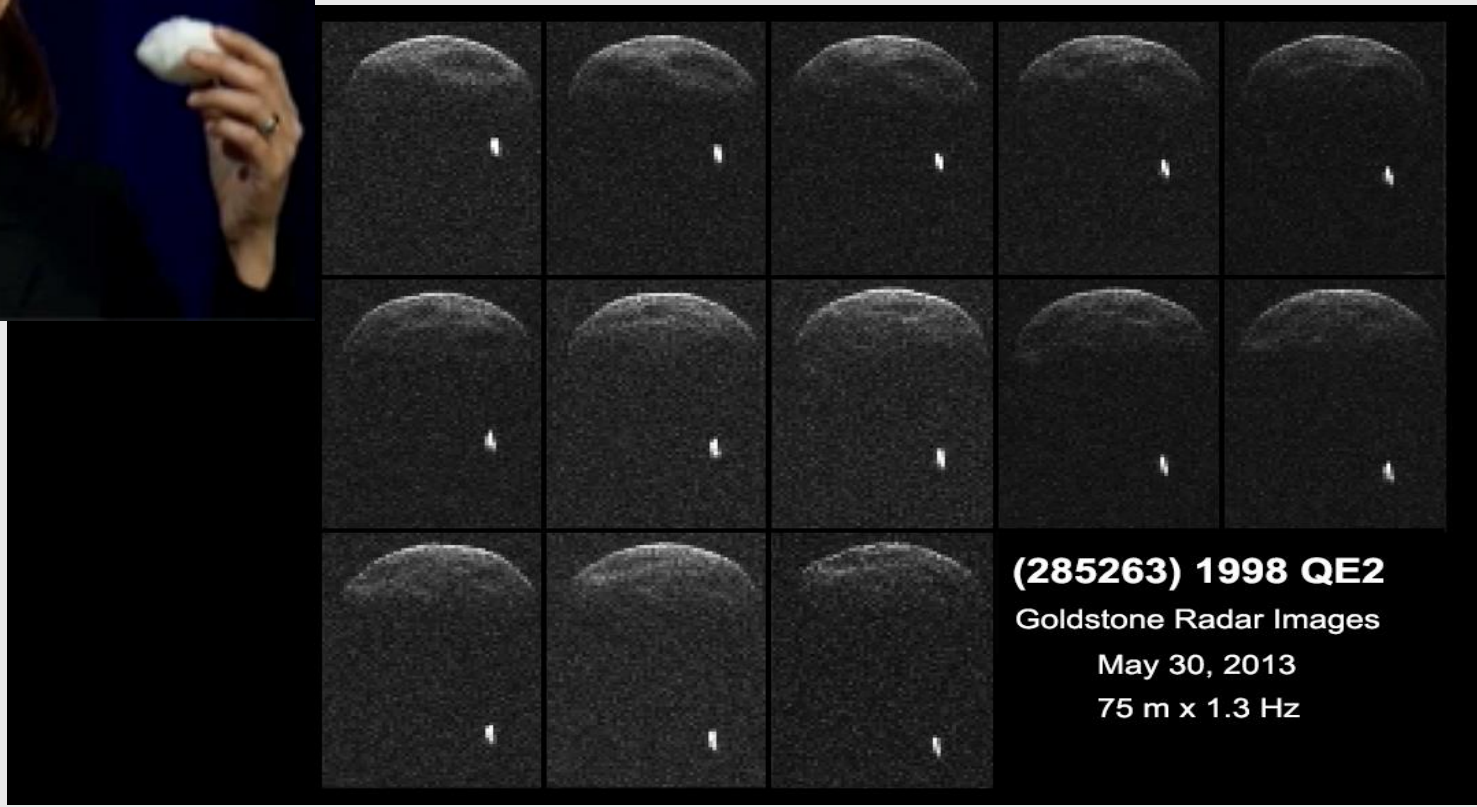


Dr. Marina Brozović

- Duke University
- Fermi Laboratory
- CALTECH – 200
- JPL - Pasadena

Fermi Lab. days

*www.**youtube**.com/watch?v=ZVcwCx_uN6M*



Dr. Marina Rejkuba

Head, User Support Astronomers Group
ESO - European Organisation for Astronomical Research in the Southern Hemisphere , Garching bei München

2002. - PhD in Physics at Pontificia Universidad Catolica de Chile

1998 . graduated in Physics from the University of Zagreb

1996.-1998. Asiago Observatory, Italy

ESO – VLT, Sierra Paranal

ESO ALMA COFUND Fellow at Argelander Institut for Astronomy,
Bonn, Germany

Adjunct Assistant Professor at Department of Physics,
Faculty of Science, University of Zagreb, Zagreb, Croatia

Jan/2008 – Jan/2010:
CARMA Postdoctoral Scholar, California Institute of Technology
(Caltech), Pasadena, CA, USA

Oct/2004 – Dec/2007:
Max-Planck Institut f¨ur Astronomie (MPIA), University of Heidelberg,
Heidelberg, Germany , (PhD; graduated with ”magna cum laude”

Feb/2003 – Apr/2004:
Princeton University Observatory, Peyton Hall, Princeton, NJ,
USA & Department of Physics,

Faculty of Science, University of Zagreb, Zagreb, Croatia
(Diploma; graduated with best grade (5 out of 5);
average grade during studying 4.372 out of 5)

Dr. Vernesa Smolćić

MIT - GRADECEK GROUP

Laboratory for Nanophotonics and Electronics

Principal Investigator : Thomas Lord Associate Professor of Materials Science and Engineering

2004-2006: Postdoctoral Fellow
Professor Charles M. Lieber group, Department of Chemistry and Chemical Biology, Harvard University (Cambridge, Massachusetts)
2004: Research Associate
Institute of Quantum Electronics and Photonics, Swiss Federal Institute of Technology (Lausanne, Switzerland), Professor Marc Ilegems
2003: PhD in Physics
Interdisciplinary Center of Electron Microscopy, Swiss Federal Institute of Technology (Lausanne, Switzerland)
1999-2003: Graduate Student
Interdisciplinary Center of Electron Microscopy, Swiss Federal Institute of Technology (Lausanne, Switzerland), Professor Pierre Stadelmann
1999: Diploma in Physics
Department of Physics, Faculty of Science, University of Zagreb (Zagreb, Croatia)
1999: Undergraduate Student
Laboratory for Thermal Conductivity Investigation, Institute of Physics (Zagreb, Croatia)
1998-1999: Research Assistant
Laboratory for Structural Investigation, Department of Physics, Faculty of Science, University of Zagreb (Zagreb, Croatia)

Dr. Silvija Gradecek

Dr. Slaven Garaj

NUS National University of Singapore

Slaven Garaj :: Research

[Slaven@Harvard: ~/ Home/ Research/> _

Review Articles

- V. Brouet, H. Alloul, S. Garaj, L. Forro: NMR Studies of Insulating, Metallic, and S Correlations and Jahn-Teller Distortions, to appear in Springer Review Series.
- Andrzej Sienkiewicz, Marek Jaworski, Slaven Garaj, Laszlo Forro, Charles P. Schl Biophysics: from Rapid Mixing Stopped-Flow to High-Hydrostatic Pressure ESR, D
- L. Forro, J-P. Salvetat, J.-M. Bonard, R. Bacsa, N. H. Thompson, S. Garaj, L. Thie Degiorgi, A. Bachtold, C. Schonenberger, S. Pekker, K. Hernadi: Electronic and m Science and Application of nanotubes, 297-320, ed. Tomanek and Enbody (Kluwer 2000).

Patents

- Patent Number: WO03023806, FIELD ELECTRON EMITTING DEVICE, Publicatior

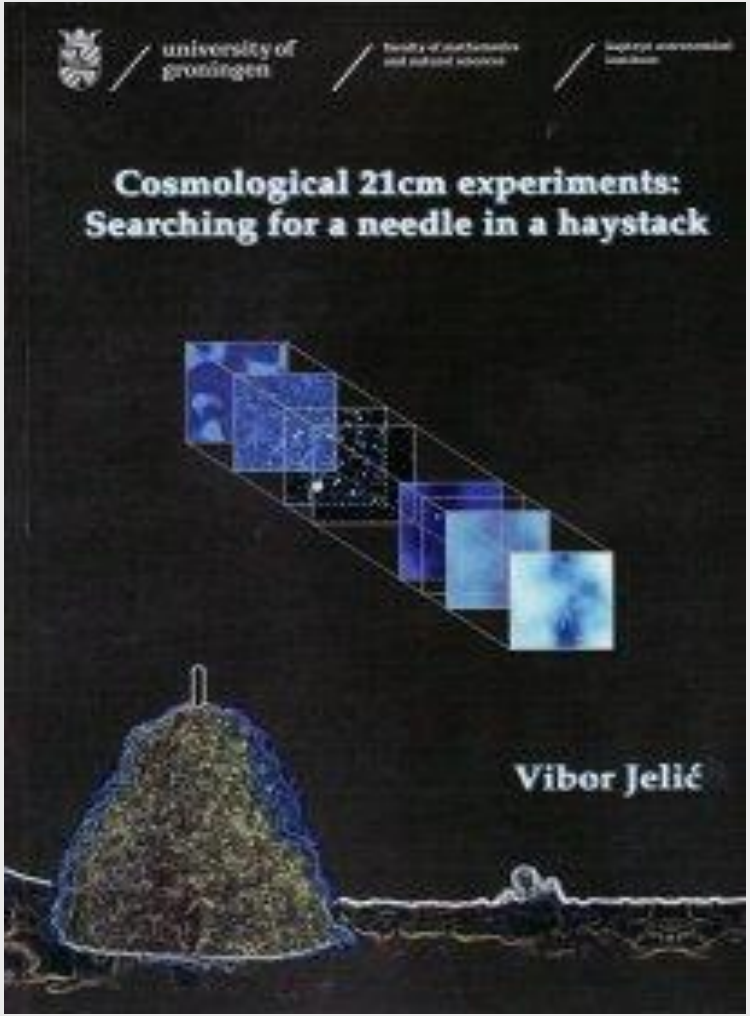
Peer-reviewed Articles

Strongly Correlated Electron Systems

- F. Simon, A. Janossy, T. Feher, F. Muranyi, S. Garaj, L. Forro, C. Petrovic, S. Bu Field Induced Density of States in Superconducting MgB_2: Measurement of Condu cond-mat/0302620
- Slaven Garaj, Takashi Kambe, Laszlo Forro, Andrzej Sienkiewicz, Motoyasu Fujiw TDAE-C_{60} organic ferromagne, Phys. Rev. B 68, 144430 (2003)
- T. Kambe, S. Garaj, L. Forro, M. Fujiwara, K. Oshima: Temperature induced de-po 697-698 (2003).
- V. Brouet, H. Alloul, S. Garaj, and L. Forro: Persistence of molecular excitations ir metal to insulator transition at high temperatures, Phys. Rev. B 66, 155124 (2002).
- V. Brouet, H. Alloul, S. Garaj, and L. Forro: Gaps and excitations in fullerides with K_4C_{60}, Phys. Rev. B 66, 155122 (2002).
- Ferenc Simon, Slaven Garaj, and Laszlo Forro: Comment on "Low Temperature Ma Polymers", Phys. Rev. Lett. 87, 12973 (2001).
- F. Simon, A. Janossy, T. Feher F. Muranyi, S. Garaj, L. Forri, C. Petrovic, S. L. Bu Canfield: Anisotropy of Superconducting MgB_2 as Seen in Electron Spin Resonanc 047002 (2001).
- V. Brouet, H. Alloul, Thien-Nga Le, S. Garaj, and L. Forro, Role of Dynamic Jahn-T Studied by NMR, Phys. Rev. Lett. 86, 4680-4683 (2001).

Nanostructures

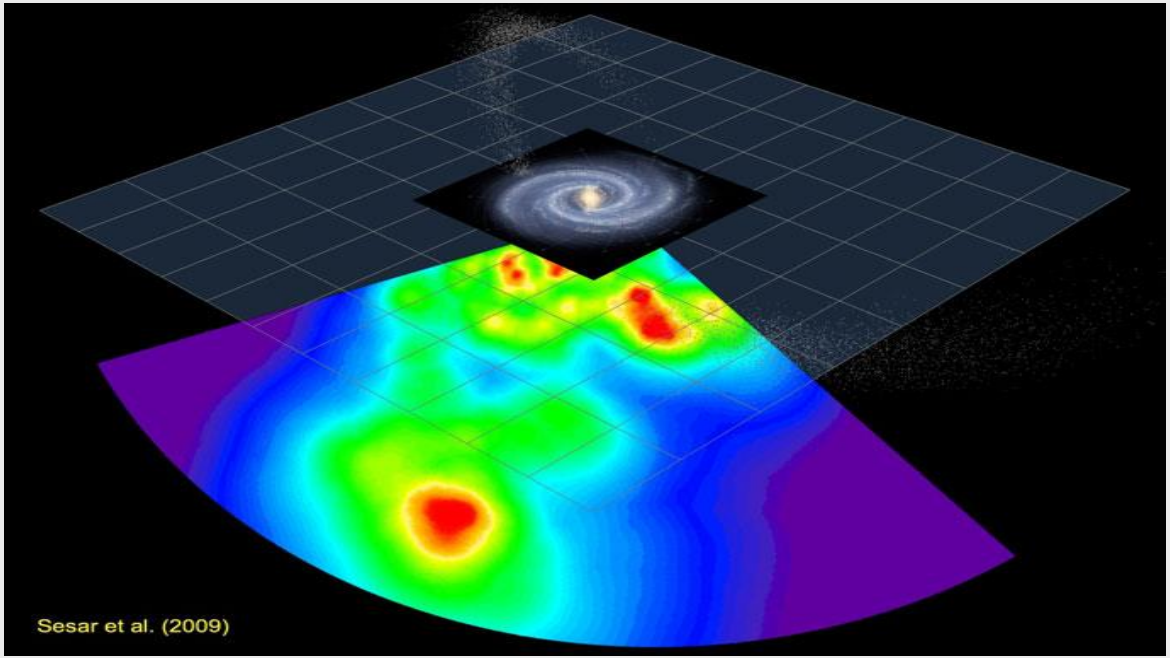
- Le Thien-Nga, Klara Hernadi, Edina Ljubovic, Slaven Garaj, and Laszlo Forro: Mech Nanotubes from Catalytic Particles, Nano Lett. 2, 1349 - 1352 (2002)



Dr. Vibor Jelić

Netherlands Institute for Radio Astronomy (ASTRON)
member of the LOFAR-EoR

Variability and outer halo structure using RR Lyrae stars



Dr. Branimir Sesar

University of Washington, Seattle

Ana Bonaca

- Yale University

Aleksandar Cikota

ESO - European Southern Observatory, München

Stefan Cikota

Swiss Space Systems Holding SA
Payerne, CH