



MINISTRY OF RESEARCH, INNOVATION AND DIGITALIZATION



INSTITUTUL DE FIZICĂ ATOMICĂ
INSTITUTE OF ATOMIC PHYSICS

"Ar fi o fericire să se inteleagă odată temeinic ca unul din factorii cei mai importanți de formare economică a unei țări este cercetarea științifică pură, [...] oricât de paradoxal ar parea la prima vedere."

Horia Hulubei
Fondatorul IFA (1956)



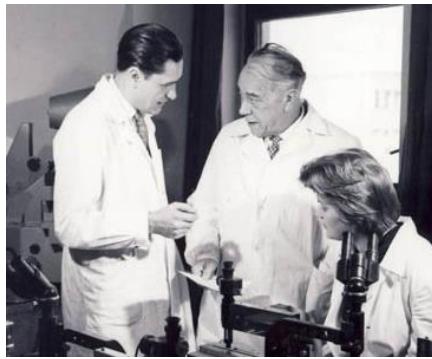
IFA at the 65th Anniversary

125 years since birth of Professor Horia Hulubei
18 November 2021, Măgurele



ifa : the cradle of the Romanian physics research

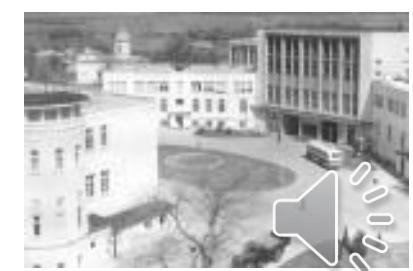
... funding agency and integrating role



Horia Hulubei (1896-1972)
IFA founding father



- 1949 Inst. Phys. Acad.**
- 1956 IFA (Inst. At. Phys.) IFB**
- 1968 IFA → CEN**
- 1973 ICEFIZ: IFA, ITN Pitești, I. Iz. St. Cluj, IFB, INCREST, Lab. Fiz. CCTF Iași**



2021 65th anniv.

2016 + AUF, JINR

2014 + ELI-NP, FAIR

2012 + EURATOM Fission

2011 + CERN

2010 + F4E

2009 + CEA, Appl. host. ELI

2008 Restructuring of IFA

2006 + CEEX (→ 2008)

2001 + CERES (→ 2006)

1999 + EURATOM Fusion

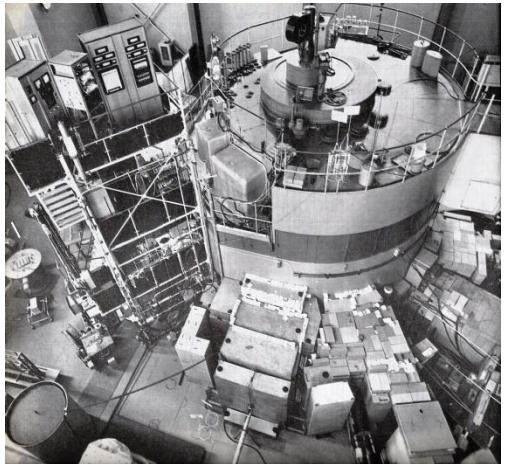
1996 IFA – Funding Agency / HORIZON 2000

Nat. Inst. R&D: IFIN-HH, INFIPR, INFM, INFP

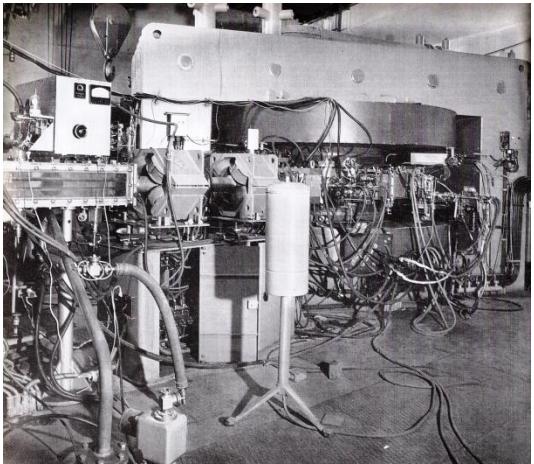
1990 IFA (~~CSEN, ICEFIZ~~), IRNE → Min. El. Energy

1977 ICEFIZ (Restructuring): ~~IFA, IFB, CMS, Astr. Observatory~~
~~IFIN, IFTAR, IFTM, CFPS, CASS, FAN, IRNE Pitești,~~
ITIM Cluj-Napoca, CFT Iași

Outstanding accomplishments ('60s)



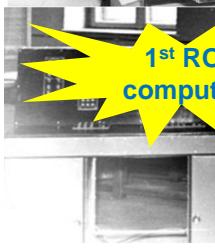
VVRS Reactor (SU/1957)



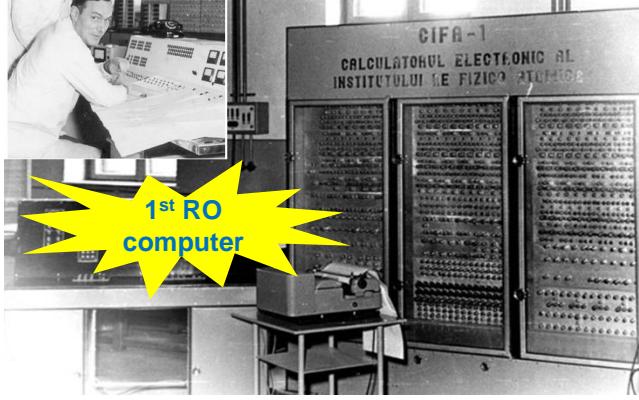
U120 Cyclotron (SU/1957)



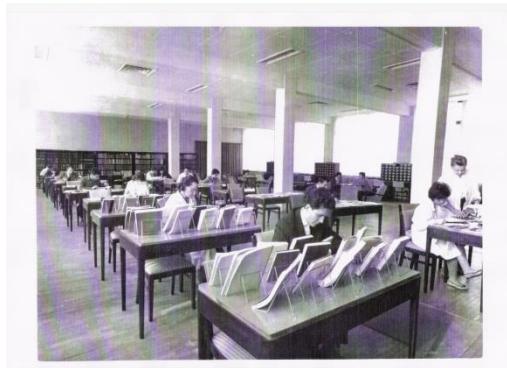
Victor Toma



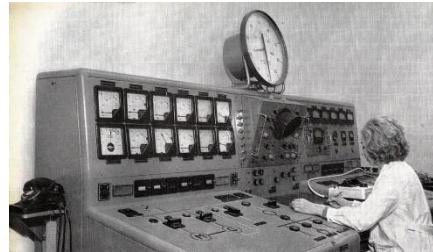
1st RO computer



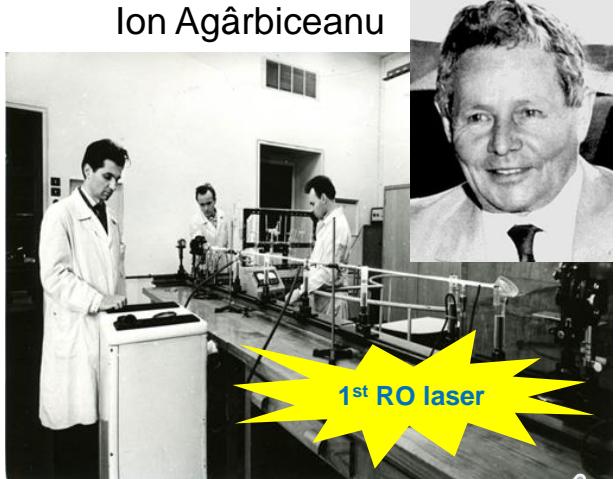
CIFA-1 Computer (1956)



1st IFA Library



IFA Betatron (1960)



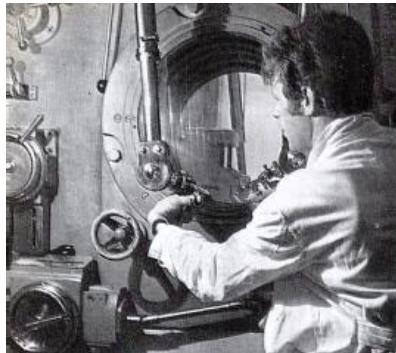
He-Ne Laser (1962)



Outstanding accomplishments ('70s)



TANDEM accelerator



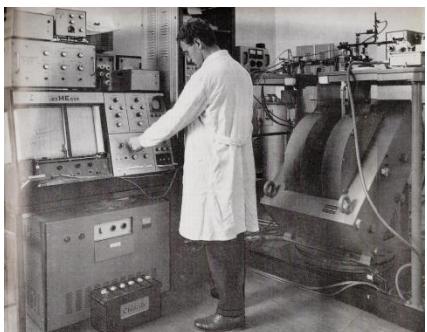
Radioisotope production



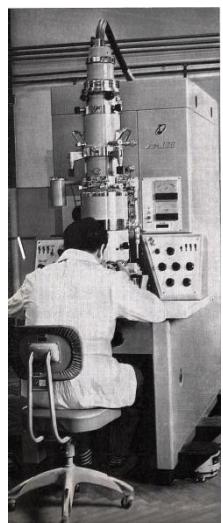
Radioactive waste processing



High power laser



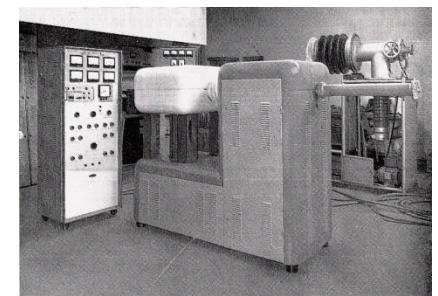
ESR spectroscopy



Electron microscopy



Metallic depositions
in vacuum



Neutron generator



1990: Re-establishment of IFA (based on IFIN)

DECRET Nr. 6 din 1 ianuarie 1990

privind desființarea Comitetului de Stat pentru Energie Nucleară și înființarea Institutului de fizică atomică

EMITENT: CONCILIUL FRONTULUI SALVĂRII NAȚIONALE

PUBLICAT ÎN: MONITORUL OFICIAL NR. 1 din 3 ianuarie 1990

HOTĂRÎRE Nr. 119 din 8 februarie 1990

privind structura organizatorică a Institutului de Fizică Atomică
EMITENT: GUVERNUL ROMÂNIEI

PUBLICATĂ ÎN: MONITORUL OFICIAL NR. 219 din 2 sept. 1992

ANEXA 3-A

TOTAL PERSONAL 5282

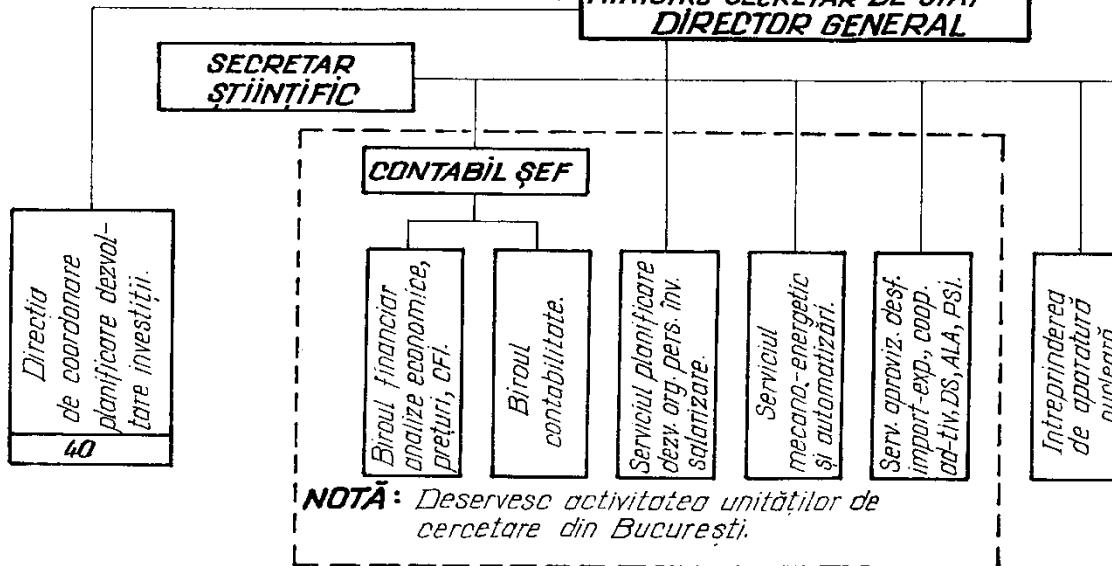
INSTITUTUL DE FIZICĂ ATOMICĂ

MINISTRU SECRETAR DE STAT
DIRECTOR GENERAL

APROB,
PRIM-MINISTRU AL GUVERNULUI,
Petre Roman

Mihnea Marmeluc

08.02.1990



MINISTRU SECRETAR DE STAT,

Gheorghe Rascovici

NOTĂ: Structura organizatorica a compartimentelor si statul de functiuni se aproba prin ordinul ministrului in limita numarului total de posturi cu avizul Ministerului Muncii si Ocupatiilor Sociale.

1. Institutul de fizică și inginerie nucleară.	1684
2. Institutul de fizică și tehnologia materialelor.	438
3. Institutul de fizică și tehnologia aparatelor cu radiații.	651
4. Institutul pentru tehnologii izotopice și moleculeare.	423
5. Institutul de fizică tehnică.	295
6. Institutul de gravitație și științe spațiale.	91
7. Centrul de fizică Pământului.	167
8. Centrul de pregătire și perfecționare a cadrelor.	9

Avizăm favorabil,
MINISTERUL MUNCII SI OCUPATIILOR SOCIALE,

Mihnea Marmeluc



IFA Directors-General (1956-2008)

ICEFIZ



Horia Hulubei
1956 - 1968



Ioan Ursu
1968 - 1973 / 1973 - 1977



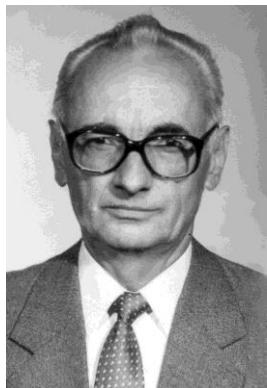
Florin Ciorăscu
Jan.- Mar. 1977



Marin Ivașcu
1978 - 1990



G. Pascovici
1990 - 1993



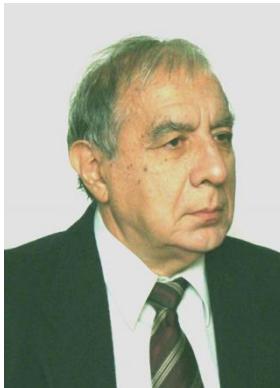
A. Glodeanu
1993 - 1995



T. Necșoiu
1995 - 1997



G. Musa
1997 - 1998



V. Lupei
1998 - 2000



T. Ionescu-Bujor
2000 - 2008

IFA programmes

EURATOM-RO (1999)



EC calls (framework prog.)
~ 12 projects/year

CEA-RO (2009)



5 joint calls
40 projects

F4E-RO (2010)



F4E calls
3 projects

CERN-RO (2011)



3 calls (open submission)
~ 10 projects /year

ELI-RO (2014)



4 calls
55 projects

FAIR-RO (2014)



3 calls
24 projects

AUF-RO (2016)



2 joint calls
18 projects

JINR-RO (2016)

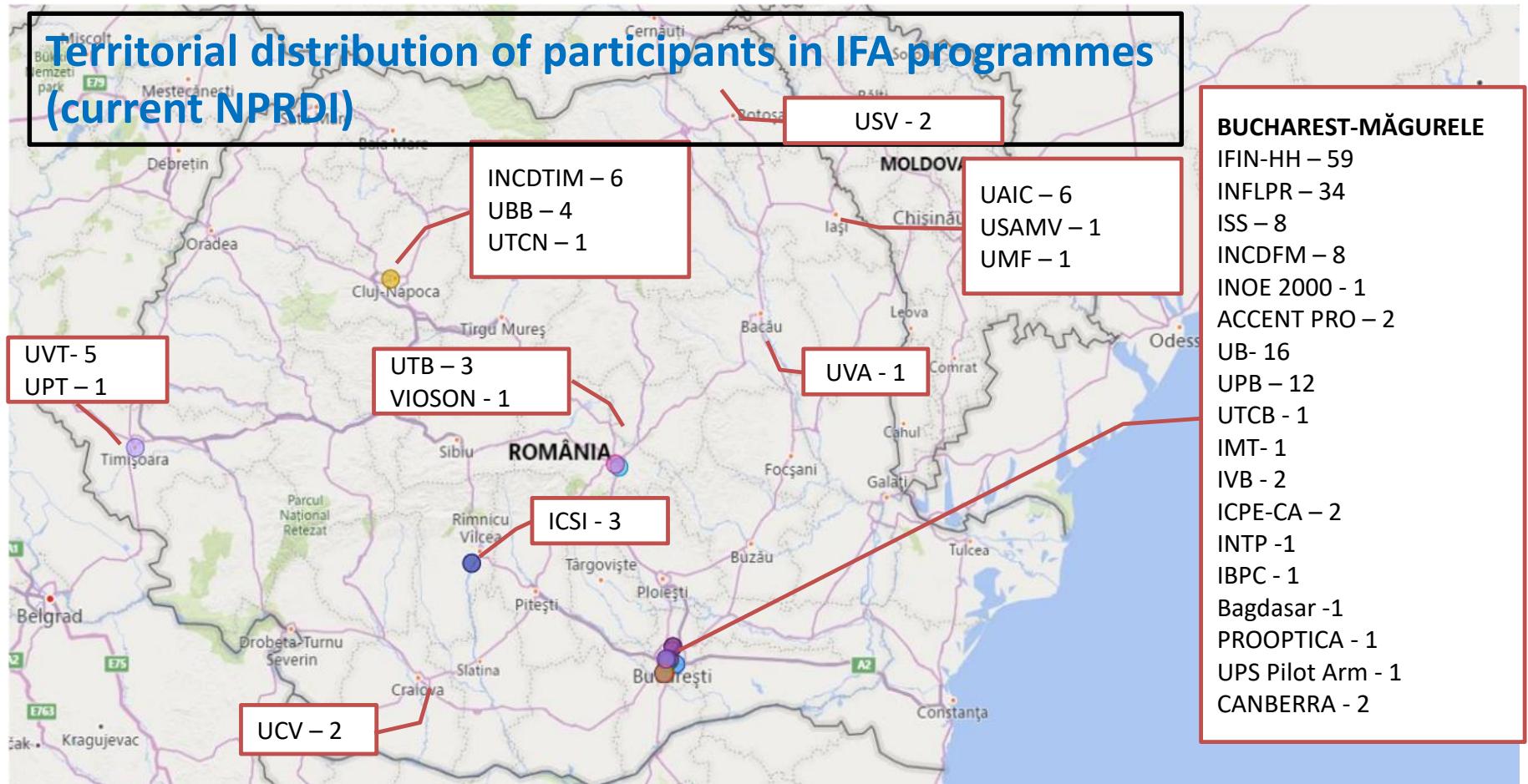


Annual joint calls
~ 40 grants/year
~ 100 projects/year

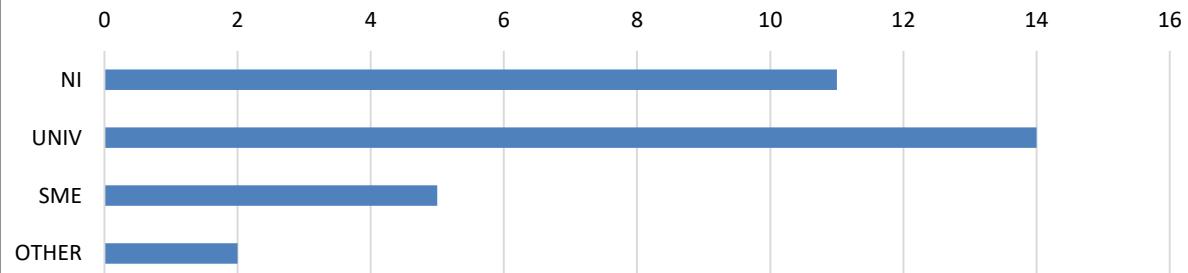
Closed national R&D programmes: CERES (2001-2006), CEEX (2005-2008)



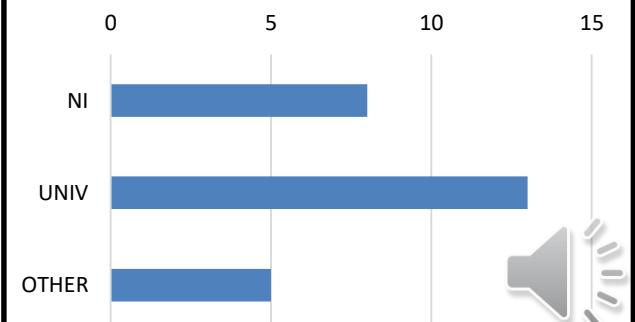
Territorial distribution of participants in IFA programmes (current NPRDI)



Participants according to the institutional category
(current NPRDI)



JINR-RO Agreement



International Scientific Advisory Boards

CERN-RO



Dr. Cristinel DIACONU
- Chair, CPP Marseille,
CNRS, France



Dr. Christian JORAM
CERN, Switzerland



Prof. Thomas
LOHSE
Humbold Univ.,
Berlin, Germany



Prof. John
HARRIS
Yale Univ., USA



Prof. Clara
MATTEUZI
INFN, Milano Univ.,
Italy

FAIR-RO



Dr. Angela BRAEUNING-
DEMIAN - Chair, GSI,
Germany



Dr. Faiçal AZAIEZ
iThemba LABS, Cape Town
& Johannesburg, South
Africa



Prof. Silvia Monica
LENZI, Padova Univ.,
Italy



Prof. Joachim STROTH
Institut fur Kernphysik,
Goethe Univ, Frankfurt
and Main, Germany



Prof. Karlheinz
LANGANKE - GSI,
Darmstadt, Germany



Prof. Andreas ZILGES -
Chair, University of
Cologne, Koln,
Germany



Dr. Antonio
LUCIANETTI -
HiLASE Centre,Czech
Republic



Prof. Hiromitsu
KIRIYAMA - Kansai
Photon Science
Institute, Kyoto, Japan



Prof. Robert JANSSENS
University of North
Carolina at Chapel Hill
and TUNL, NC, USA



Prof.Thomas KUEHL
GSI, Darmstadt,
Germany



Outreach @ IFA

Școala Altfel la Măgurele (SAI-M) Noaptea Cercetătorilor



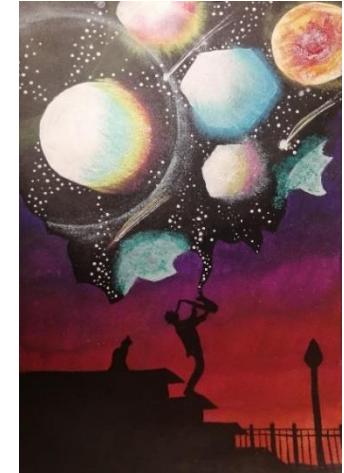
Dumitrică Mihai-Aurelian, București
Dudu Alexandra-Elena, București
Moscalu Teodor Gabriel, București
Mahmoudi Sogand, jud. Cluj
Muza Erika-Dariana, jud. Cluj



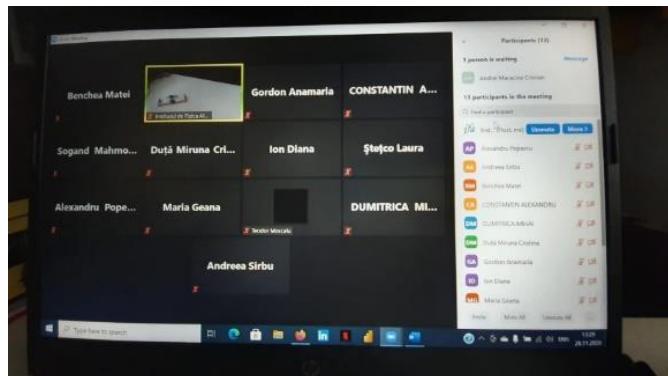
Concurs desen Conexiuni știință-muzică



Premiul I (V-VIII)
Ungureanu Mihaela



Premiul I (IX – XII)
Ganea Daria Maria



Concursuri și jocuri

Tombolă

27 Noiembrie 2020



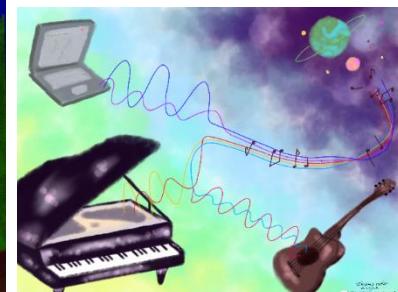
Webinarii

Aventurile lui Scratch, Gobo și Nano în lumea programării

16 Noiembrie 2020



Premiul I (V-VIII)
Ciocoiu Thea Alexandra

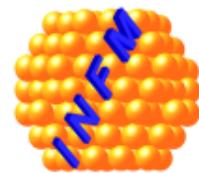


Premiul I (IX – XII)
Vlădescu Maria

Film mulțumire:
Moscalu Teodor Gabriel



ifa Council



IFT Iași



ITIM
Cluj-Napoca



Thank You!

www.ifamg.ro

