



International Science Programme

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SEFE and the EMS-CDC meet in Oslo

Plan of action

Year	Africa	Int. Seminar in Uppsala	Actions
1968		Come to International Seminar	Prel. contacts Int. Sem. resp. Physics Dept. "Project Manager", No. 1 appointed, also No. 2 in the project. E= research leader and future expert.
1969	Theoretical and administrative preparations	Research and planning	No. 1 joins the Seminar No. 2 starts preparations at home department
1970	Experimental preparations	Research and equipment construction	No. 2 joins the Seminar and the Africa equipment is set up. No. 1 trains No. 3 in the particular field, mainly literature studies.
1971	Research training		No. 3 joins the Seminar No. 1 and No. 2 receive the equipment and start to set it up.
1972	Swedish expert joins the group in Africa and research can start.		
1973	Research and degree studies under way in Africa.		No. 1 back to Uppsala for development studies

THE ISP GENERAL OBJECTIVE
"to strengthen the domestic capacity for scientific research and postgraduate education in Chemistry, Physics and Mathematics, by long-term support to research groups and scientific networks"

www.isp.uu.se

Sandwich programmes were outlined in 1967

Figure 5. At the closing ceremony of the Physics Seminar on the 28th of June 1967 the Director presented a plan of action for the development of the fellowship programme into a project programme. In many ways the development during the 80s actually followed a similar plan. (The figure is the authentic picture shown in 1967, a time when no computer drawing was available.)



International Science Programme Mathematics

Short history: Started in 1961 with *Physics*



1963: First director of ISP (Dr Torsten Lindkvist), Professor Kai Siegbahn (Nobel Prize in Physics 1981) and H.E. Julius Nyerere

... and in 2002 *Mathematics*



1961-62: First participants

In 1970 *Chemistry* came on board

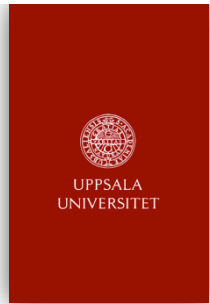


The director of IPICS ('70-'97) Rune Liminga (right) and Dr Frederico Dajas (left)

Support over the years:

- Norwegian government
- IAEA
- UNESCO
- Sida (and predecessors)
- UU
- SU
- Contributions "in kind"





International Science Programme Mathematics

‘ISP countries’ – many only members of networks



Red = Chemistry

Yellow = Physics

Green = Mathematics



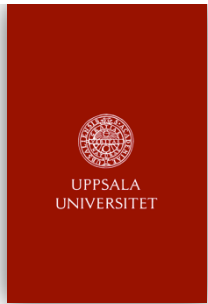
International Science Programme Mathematics

12 longterm Sida bilateral countries 2014 decided by the former government in 2007.
New government elected in September 2014 – the picture may change.



- Green = Mathematics included
- Yellow = University cooperation, but no mathematics
- Brown = No university cooperation (yet)
- Red = Phased out – but now back?

To mathematics:
 Moz: 2 MEuro (ends 2016)
 Uga: 4,8 MEuro,
 Tan: 1,2 MEuro, Rwa: 3,5 MEuro



International Science Programme

Mathematics

ISP budget 2014 – 2018 (in kSEK)
1 USD = 7.4 SEK

	2014	2015	2016	2017	2018
From Sida:	33,000	33,000	33,000	31,000	30,000
From UU:	2,907	2,965	3,024	3,084	3,143
Total:	35,907	35,965	36,024	34,084	33,143

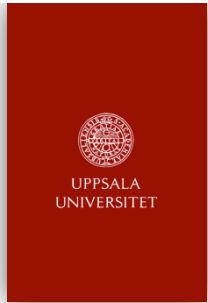
Plus: a bit more than 2 MSEK per year from SU and Al-Baha University (the latter ear-marked for activities at ABU) and involvement in different bilateral programmes: over 74 MSEK/year for the period 2014 – 2016.



International Science Programme Mathematics

Mathematics
2002 - 2014





International Science Programme

Mathematics

Total budget for mathematics (all figures in kSEK):

2015	2016	2017
5,568	5,650	5,650

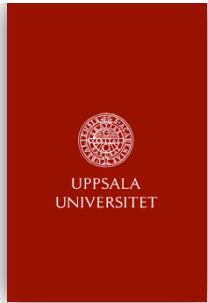
	2014	2015	2016	2017
AAU	700	750	750	?
EAUMP	3,000	3,000	2,900	?
PDE, ...	1,100	1,135	955	971
RUPP	568	-	-	-
SEAMaN	-	523	850	827
Unforeseen	200	242	195	?

Red=to be applied for

Total allocations, 2002 - 2014:

- EAUMP (2002 -) Total funds received: **19,309**
- AAU (2005 - , with interruption 2009 – 2010) Total funds received: **3,945**
- PDE, Modeling and Control (2003-) Total funds received: **9,260**
- Cambodia (2010 - .) Total funds received: **1,340**
- Cameroon: (2004 – 2006, with extra funds for one student up to 2012) Total funds received: **2,901**
- Ghana (2002 – 2009) Total funds received: **1,662**

TOTAL: 38,417



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PhD-students, some statistics

	2010	2011	2012	2103	2014
No of student	51	59	84	100	89
Graduated	6	4	9	11	11
New	16	13	30	25	8
Lost		0	3	0	8
Remaining	45	55	75	89	78

- The students are from EAUMP, AAU and PDE, Modeling and Control.
- Percentage of female students varies between 11 and 28, decreasing over the years.
- 43 of the 79 students in 2013 were sandwich, but not all in Sweden

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Sandwich PhD-students

	Graduated	Last visit 2012/13
No. of students ¹⁾	14	8
Average length (years) ²⁾	4,9	5,9
Total no. of months in Sweden	308,5	186,5
<i>Average no. of months/student</i>	22,0	23,3
<i>No. months/year</i>	4,5	4,0
Subtotal cost (kSEK)	6,633	4,010
<i>Average cost/student</i>	474	501
<i>Estimated airfare/student</i> ³⁾	40	60
<i>Other costs/student</i> ⁴⁾	15	15
TOTAL cost/student	529	576

¹⁾ IMS, Ghana, not included.

²⁾ Years with no visit to Sweden not included (4 to 7 years to graduation from first visit).

³⁾ Estimated: 12,000 SEK per return trip.

⁴⁾ Laptop, conferences, etc.

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THANK YOU!



ISP 50th Anniversary Seminar, 26 September 2011