

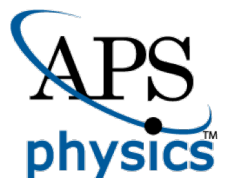


Survey of FIAP members for Strategic Planning

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Presentation to Communities
Subcommittee

June 29, 2018



Agenda

1. Overview of survey
2. Top 12 desired services
3. Comments on industrial lectures at Univ
4. Other 17 services

Overview of survey

1. Survey about 29 possible services that APS could offer to industrial physicists
 - A. Possible ratings: Great idea, Good idea, So-So idea
2. Survey sent to:
 - A. All FIAP members
 - B. Past FIAP Exec Comm members
 - C. Industrial Physics Advisory Board
 - D. People who attended APS Industrial lunches
3. 320 responses, 20 of whom did not complete all the questions
4. Last question was about work status. Could check more than one box, statistics next page

Who responded?

primary work status	total	
164	186	Can select more than one option, so total is higher
	23	Working in the private sector + Entrepreneur
40	42	Entrepreneur **
19	34	National lab
9	10	College or university faculty or staff
17	23	Postdoc
1	3	Graduate student
36	53	Undergraduate student
14	18	Retired
20	20	Other (please specify)
320	412	didn't finish survey
		**16 of 23 also checked "private sector" so I included Entrepreneur in Private Sector







1. >50% respondents in target audience of physicists working in the private sector
2. Tabulated all responses + most interest groups above

Services ranked in top 12

present work status	Private Sector	National Lab	Univ faculty/staff	Postdoc	Grad student	All
avg number of responses	160	39	19	9	17	299
	Rank for proposed service					
Industrial lectures at local universities and vice versa	1	5	1	5	8	2
Student events about industrial careers at section (three year cycle) and national meetings	2	2	1	1	1	1
Employment listings	3	1	8	1	1	3
Joint topical meetings with other related societies (IEEE, ACS, OSA,	4	15	4	5	8	5
Webinars on industrial physics topics	5	13	9	1	16	7
Local Links	5	3	1	1	4	4
Meetings/workshops to facilitate development of industry/academic partnerships	7	6	4	5	4	6
Up-to-speed online tutorials (à la Ted Talks)	8	10	10	5	8	8
Periodic industrial physics publication (à la Industrial Physicist)	9	10	12	18	1	9
Mid-career events at section and national meetings (resume writing, networking, career planning)	10	4	4	5	15	10
Archival journals – suitable for industrial contributions	11	22	4	18	23	13
Periodic general physics publication (à la Physics Today)	12	12	12	5	24	12

1. Rank of services rated “Good” or “Great” by each interest group
2. In order of Private Sector preference

Observations

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1.  Enthusiasm about industry-academic partnerships

2.  Careers focus

3.  Engage with other professional societies

Comments on industrial lectures at Univ.

Industrial lectures at local universities and vice versa		Affiliation
Great idea	A must	Private Sector
Great idea	As long as industry gets notifications!!!!	Private Sector
Great idea	Deans at, say, Case or Carnegie Mellon would welcome this.	Private Sector
Great idea	This could be nice for students' exposure to industry, and a industry's networking with future employees, as well as letting industrial physicists hear some current basic physics research.	Private Sector
Great idea	Careers and technology talks would both be beneficial	Private Sector
Great idea	Yes. It also promotes netowrking for student and talent attractions for industry.	Private Sector
Great idea	Academia needs to hear from industry since most of their products (students) go into it	Private Sector
Great idea	Faculty and grad students need to learn about what goes on in industry	Private Sector
Great idea	This is going to be tricky but could pay off greatly	Private Sector
Great idea	Getting local universities to reach out more to industry would be very helpful, I would think.	Private Sector
Great idea	Both groups present information differently, but there is enormous shared interest between them. We had a lecturer from a university come in where I work and it was a tremendously positive experience.	Private Sector
Great idea	More interships of academics in industrial and federal labs are needed	National lab
Great idea	Applid physics has much application	National lab
Great idea	Hence, the distinguished lectureship award. Like the idea of expanding a travelling lecture program	Retired
Great idea	Cheap and will make industrial careers more interesting.	Retired
Great idea	good way to broaden the contacts of both audiences	Retired
Great idea	Students need to see what opportunities await outside of industry.	Federal Agency
Good idea	Expand existing ex-officio efforts.	Private Sector
Good idea	You keep using that word, "Industry"	Private Sector
So-So idea	What is an industrial lecture?	Private Sector
So-So idea	Not a good idea. Universities do an excellent job of this on their own.	Private Sector
So-So idea	Travel, cost and having to take time-off from work throw a monkey-wrench in being able to take advantage of such venues.	Private Sector
So-So idea	Time commitment and (mis)alignment of interest/need is hard.	Private Sector
So-So idea	We are already well connected to our local university, so we would rather meet new people	Private Sector
7 So-So idea	VERY hard to curate. Worst outcome is discouraging people from open-mindedness in future	Retired
So-So idea	In my experience they are poorly attended, the academics don't see value and so don't attend	NGO

Lower ranked services

present work status	Private Sector	National Lab	Univ faculty/ staff	Postdoc	Grad student	All
avg number of responses	160	39	19	9	17	299
	Rank for proposed service					
APS lecture tours	13	8	12	5	4	11
Social events at section and national meetings	14	7	22	5	8	14
Small, focused 1-2-day topical conferences (geographically dispersed)	15	9	15	5	20	15
General physics lectures	16	18	25	18	16	17
Industry-oriented section meetings	17	19	18	5	4	16
Short courses (stand-alone, section and national meetings) on business topics (project management, IPR, basic business finance, basic contract law)	18	15	15	18	16	18
Speaking seminars (stand-alone, section, and national meetings)	19	14	27	18	25	19
Large annual meeting with industry-oriented symposia (à la Industry Day at the March meeting)	20	22	17	29	8	21
More Local Links chapters	21	17	11	26	19	20
Blogs	22	24	28	18	21	25
Financial planning for career changes	23	26	20	5	8	22
Industrial physics policy workshops	24	21	21	25	8	24
Writing seminars (stand-alone, section, and national meetings)	25	19	23	5	26	23
Short courses (stand-alone, section and national meetings) on business skills	26	25	19	27	22	26
Long term care insurance	27	29	26	5	28	28
Retirement planning	28	27	24	18	27	27
Life insurance	29	28	29	27	29	29