How Scientists View Their Profession

A recent AAAS survey suggests that most scientists are satisfied with their career choices. But it also hints at concerns about the state of academia and the future of funding in certain disciplines.



2. Different strokes for different folks. A profile of the different disci- plines emerges from each group's answers to four core questions. Note that once again there are statistically significant (i.e., > 8%-12%) variations among the disciplines. Also, not all response choices are shown.										
	Were "very satisfied" with their jobs.	% 42	% 50	% 55	% 54	% 62	% 54	% 60	% 54	
lists"	Expect their discipline's fund- ing to rise over next 5 years.	35	29	19	30	19	34	31	46	
"Optimists"	Expect to remain in their sub- specialty over next 5 years.	36	51	33	31	39	37	32	36	
	Expect to remain with employer over next 5 years.	23	30	31	25	30	28	30	25	
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-	Were somewhat or very dis- satisfied with their job.	15	11	20	11	9	13	8	10	
"Pessimists"	Expect their discipline's fund- ing to drop over next 5 years.	21	23	36	22	34	25	27	18	
"Pess	Expect to change their sub- specialty over next 5 years.	15	7	5	14	6	10	11	17	
	Expect to change employer over next 5 years.	26	21	16	19	16	16	13	21	

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(Statistical significance

about 8%.)

his is a classic good news/bad news story about science, the profession, in 1992. In a member opinion poll conducted by the AAAS last May,* nearly nine of every 10 respondents (Fig. 1.) expressed satisfaction with their careers. That's the good news.

The bad news is that there's a malaise afoot in the world of science, and this may be reflected in specific responses to the AAAS questionnaire. The biggest single bit of news of this survey may be the following comparison: Seventy percent of the respondents now working in industry and 60% of those employed in hospitals or medical schools are willing to recommend careers in their choice of employment sector, but only 41% of those in universities and 18% of those in

* The AAAS Careers Survey was mailed to 2500 randomly selected members the week of 24 May. To ensure adequate response for analysis across discipline category, the sample design allowed for oversampling members in the less well represented discipline categories of AAAS. Based on 1368 responses received by July 17 (a 55% response), sampling error is approximately +/-3% at the 95% level. Approximate sampling tolerance for differences between subgroups (i.e., discipline or employer) varies, based on subgroup response, and can be as large as +/-8% to 12%. The data in the final report will be weighted to adjust for the unequal probability of selection due to oversampling and to reflect the true distribution of membership across discipline.

government would recommend careers in academia and government, respectively (Fig. 4).

Other notable differences in response include the following points (Fig. 2):

Significantly greater percentages of physicists/astronomers and social/behavioral scientists expect funding to decline in their disciplines.

Greater percentages of biologists, chemists, and mathematicians/computer scientists expect to change their specialties within 5 years.

Significantly higher percentages of biologists expect to change employers in that time frame.

You will find other interesting patterns in the figures on these two pages. Please realize that space constraints have kept us from providing all responses to the questions discussed. For a detailed analysis of the responses to all questions, write Member Research Manager Kathy Markey, AAAS, 1333 H St., NW, Washington, D.C. 20005. A full report can be obtained at the price of \$5 for members, \$10 for nonmembers.

- Ellis Rubinstein

3. Hot pursuits. Asked what scientific specialty holds the greatest promise over the next decade, respondants favored certain fields—and not always their own! The fields listed below are ranked based on most mentions of specialties by respondents in that discipline.

Biologists	Medical Scientists	Physicists/ Astronomers	Social/Behav- ioral Scientists	Chemists	Engineers	Earth Scientists	Math/Computer Scientists
 Genetics Molecular & cell biology Biotech- nology Medical research & immunology Environmen- tal sciences 	 Molecular & cell biology Genetics Medical research & immunology Neuroscience 	1. Genetics 2. Physics 3. Molecular & cell biology 4. Astronomy * Materials science	 Genetics Molecular & cell biology Social/ behavioral science & psychology Computers, information sciences & artificial intel- ligence Environmen- tal sciences Neuroscience 	1. Genetics 1. Molecular & cell biology 2. Biotech- nology * Environmen- tal sciences * Materials science	 Computers, information sciences & artificial intel- ligence Genetics Materials science Molecular & cell biology Biotech- nology Environmen- tal sciences 	 Environmen- tal sciences Genetics Hydro- geology 	 Computers, information sciences & artificial intelligence Biotech- nology

4. Crystal-ball gazing. Having recommended a specialty (see Fig. 3), the respondents were asked where they would advise a scientist intent on pursuing that field to work. Once again there are statistically significant (i.e., about 8%) variations in the responses of the different disciplines and of those currently employed in one of four employment sectors—government, medical schools or hospitals, industry, or universities.



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