## THE CALTECH ALUMNI SURVEY

Here, and on the following pages, are the initial results of the questionnaire survey mailed out to all Caltech alumni in the summer of 1952.

The questionnaire is based on one sent out in 1947 by Time Magazine to college graduates from the class of 1884 to 1947. The replies to that questionnaire, from 9,064 graduates of 1,000 colleges, resulted in a study published in 1952, They Went to College.

By using this questionnaire, it has been possible to compare Caltech graduates with the random crosssection of American college graduates studied in They Went to College. The column headed "Percent U. S." in the tabulation below gives the percentages for these 9,064 college graduates.

Out of a total of 5,647 questionnaires sent out, 3,800
were completed and returned. Because 130 of these were from members of the Alumni Association who had not received degrees from Caltech, they were discardedleaving a net total of 3,670 for tabulation.
Since such a large number of questionnaires were returned, a difference of one percent in the survey figures is statistically significant-either in a Caltech-U. S. comparison, or between two different Caltech percentages.
The figures below are just the bare bones of the Caltech alumni survey. In future issues of Engineering and Science, Dr. John R. Weir, Associate in Psychology at the Institute, and the man responsible for this survey, will clarify, interpret and explain various aspects of these tabulated percentages.

| Percent | Percent |
| :---: | :---: | :---: | :---: |
| Caltech | U. 5. | | Percent |
| :---: |
| Caltech | | Percent |
| :---: |
| U. S. |

From what high school did you graduate?
Southern California ..... 53
Rest of California ..... 7
Rest of West ..... 10
East ..... 8
South ..... 6
Foreign ..... 4
Please give us your college record (highest degree earned)
Bachelor's from Caltech ..... 45
Master's-Caltech (2/5 Caltech B.S.) ..... 26
Master's-non-Caltech (all Caltech B.S.) 6Engineer's Caltech (1/4 Caltech B.S.) 3Engineer's-non-Caltech(5/6 Caltech B.S.) 3
Doctorate--Caltech (1/4 Caltech B.S.) ..... 14
Doctorate-non-Caltech
(3/4 Caltech B.S.)6
Undergraduate majorBiology
Chem. \& Biochemistry2
Geology \& Geophys. ..... 5
Math. \& Astronomy ..... 3
Physics \& App. Phys. ..... 11
Chem. Eng. \& Applied Chem. ..... 8
Civil Engineering ..... 12
Electrical Engineering ..... 19
Mechanical Engineering ..... 29
Engineering ..... 47
Science ..... 53

In the light of your post-college experience, and if you had it to do over again, would you attend the same college?

| Yes | 88 | 81 |
| :--- | :--- | :--- |
| No | 12 | 19 |

Do you now feel satisfled with your selection of a major subject when in college?

Yes 8575
Wish you had chosen another major? 1525
Did you have a job while attending college?
No 4
Yes, both summers and school term 59
Yes, summers only 28
Yes, school term only 5
In military service at time of college 4
What proportion of your total expenses did you earn yourself?

| Less than $25 \%$ | 39 | 42 |
| :--- | :--- | :--- |
| 25 to $50 \%$ | 26 | 20 |
| 50 to $75 \%$ | 14 | 14 |

50 to $75 \% \quad 1414$
75 to $100 \% \quad 4$
In military service at time of college 4
Did you have a scholarship at any time while in college?

No 58
Under \$100
2
$\$ 100$ to $\$ 300 \quad 15$
$\$ 300$ to $\$ 500 \quad 8$
Over $\$ 500 \quad 11$
In military service at time of college, or G. I. bill

6

Number of extra-curricular activities
None 13

One . 26
Two 27
Three 18
Four or more 16
Were these activities of value after college?
Of those who participated,
Yes 68
No 32
Of those who did not participate, Would, if went again Would not, if went again 50

What specific occupation did you when in college plan to follow; have followed during most of adult life; might follow in future?

All same field 8480
Adult life same as college, future different
Adult life different, future same I
Adult life and future different from college12

In your present job, do you consider yourself
More successful than the average 69
As successful as the average 29
Less successful than the average 2

Did your parents attend college?
Both yes $25 \quad 11$
Both no 4968
Father yes, mother no - 1815
Mother yes, father no 8
Does (or did) your father vote mostly
Republican $56 \quad 56$
Democratic $\quad 27 \quad 44$
Don't know 17
Do you consider yourself

| Republican | 56 | 37 |
| :--- | :--- | :--- |
| Democrat | 12 | 23 |
| Other party | .1 |  |
| Independent |  | .4 |

As you feel now, how will you most likely vote in the 1952 election?

| Democratic | 13 |
| :--- | :---: |
| Republican | 76 |
| Other party | 11 |
| Depends | .2 |

Number of civic activities
None 2

One 6
Two 17
Three 22
Four 16
Five 11
Six 8
Seven or more 18
30
What one does with his life is not very important, except to oneself.

| Agree | 7 |
| :--- | ---: |
| Disagree | 91 |
| No opinion | 2 |

Religion has little to offer intelligent, scientific people today.

| Agree | 21 |
| :--- | :--- |
| Disagree | 65 |

No opinion
When the public is really concerned about an issue, its judgment is usually correct and unassailable, no matter how complex the issue.

| Agree | 17 |
| :--- | ---: |
| Disagree | 77 |
| No opinion | 6 |

The best government is one which governs least.

| Agree | 60 | 52 |
| :--- | ---: | ---: |
| Disagree | 32 | 35 |
| No opinion | 8 | 13 |

Democracy depends fundamentally on the existence of free business enterprise.

Agree $71 \quad 72$
Disagree . 23 18
No opinion • 6
Government planning should be strictly limited, for it almost inevitably results in the loss of essential liberties and freedom.

| Agree | 65 | 51 |
| :--- | ---: | ---: |
| Disagree | 28 | 36 |
| No opinion | 7 | 13 |

Individual liberty and justice under law are not possible in Socialist countries.

| Agree | 36 | 46 |
| :--- | :--- | :--- |
| Disagree | 50 | 33 |
| No opinion | 14 | 21 |

We are not likely to have lasting peace until the U. S. and its allies are stronger than all the other countries.

| Agree | 47 | 40 |
| :--- | :--- | :--- |
| Disagree | 41 | 48 |
| No opinion |  | 12 |

If we lower our tariffs to permit more foreign goods in this country, we will lower our standard of living.

| Agree | 9 | 20 |
| :--- | ---: | ---: |
| Disagree | 82 | 65 |
| No opinion | 9 | 15 |

Deep idealogical differences between countries are irreconcilable.

| Agree | 19 | 26 |
| :--- | :--- | :--- |
| Disagree | 71 | 58 |
| No opinion | 10 | 16 |

If we allow more immigrants into this country, we will lower our standard of culture.

| Agree | 7 | 19 |
| :--- | ---: | :--- |
| Disagree | 84 | 69 |
| No opinion | 9 | 12 |

The United Nations should have the right to make conclusions which would bind members to a course of action.

| Agree | 66 | 78 |
| :--- | :--- | :--- | :--- |
| Disagree | 22 | 10 |
| No opinion | 12 | 12 |

Over the next decade, we must try to make the standard of living in the rest of the world rise more rapidly than in our own country.

| Agree | 56 | 58 |
| :--- | :--- | :--- |
| Disagree | 29 | 27 |
| No opinion | 15 | 15 |

All Americans-Negroes, Jews, the foreign born, and others-should have equal opportunity in social, economic and political affairs.

| Agree | 92 | 80 |
| :--- | ---: | ---: |
| Disagree | 5 | 13 |
| No opinion | 3 | 7 |

Foreigners usually have peculiar and annoying habits.

| Agree | 10 | 18 |
| :--- | :--- | :--- |
| Disagree | 80 | 68 |
| No opinion | 10 | 14 |

Children of minority groups or other races should play among themselves.

| Agree | 4 | 7 |
| :--- | ---: | ---: |
| Disagree | 91 | 86 |
| No opinion | 5 | 7 |

Agitators and trouble-makers are more likely to be foreign born citizens than native Americans.

| Agree | 15 | 32 |
| :--- | :--- | :--- |
| Disagree | 68 | 53 |
| No opinion | 17 | 15 |

Disagree 68
1715

There are many worthwhile and important concepts which cannot be proved scientifically.

| Agree | 79 |
| :--- | :--- |
| Disagree | 11 |
| No opinion | 10 |

The harnessing of atomic energy will bring about fundamental changes in our economic and social order.
Agree
61
Disagree
30
No opinion
9

The government should promote and subsidize research in the social sciences.
Agree 42
Disagree
43
No opinion
15

There will be as many or more scientific discoveries, inventions and technological changes in the world during the next fifty years as there were during the past fifty years.

Agree

91

Disagree . . 4
No opinion
5
We now have enough scientific and technical knowledge to substantially eliminate poverty, disease and ignorance in the world, if we would apply our knowledge.

| Agree | 62 |
| :--- | ---: |
| Disagree | 29 |
| No opinion | 9 |

The government should promote and subsidize research in the physical and biological sciences.

Agree

Disagree 39
No opinion $\quad 11$
Do you now go to church
Every week 13
Pretty regularly, but not every week 16
A few times a year 21
Rarely 26
Not at all 24
Were you brought up as a
Protestant 84
Catholic 7
Jew 5
Other 4
Is your age

| Under 30 years |  | $32)$ |  |
| :--- | :--- | ---: | :--- |
| 30 to 39 years | $40)$ | 60 |  |
| 40 to 49 years |  | 20 | 21 |
| 50 and over | 8 | 8 | 19 |

Is the place where you were born

| A farm | 9 |
| :--- | ---: |
| A small town (2,500 pop.) | 15 |
| A small city (25,000 pop.) | 19 |
| A medium city (100,000 pop.) | 19 |
| A big city (500,000 pop.) | 14 |
| A metropolis (over 500,000 pop.) | 24 |

A small town (2,500 pop.) 15
small city ( 25,000 pop.) 19
A big city (500,000 pop.) 14
A metropolis (over 500,000 pop.) 24

Is the place where you spent most of your pre-college years

| A farm | 6 | 10 |
| :--- | ---: | ---: |
| A small town | 11 | 20 |
| A small city | 22 | 24 |
| A medium city | 22 | 17 |
| A big city | 14 | 12 |
| A metropolis | 25 | 17 |

Is the place where you spent most of your post-college years

| A farm | .5 |
| :--- | ---: |
| A small town | $\mathbf{3}$ |
| A small city | 24 |
| A medium city | 18 |
| A big city | 39 |

Is the place where you are living now

| A farm | 1 | 3 |
| :--- | ---: | ---: |
| A small town | 4 | 14 |
| A small city | 18 | 22 |
| A medium city | 21 | 18 |
| A big city | 18 | 16 |
| A metropolis |  | 38 |

Is the place where you were born
In California 35
In the West 13
In the Midwest 23
In the East 13
In the South . 8
Foreign : 7
Possessions l
Is the place where you spent most of your pre-college years

In California 56)

| In the West | $10)$ | 10 |
| :--- | :---: | :---: |
| In the Midwest | 14 | 34 |
| In the East | 9 | 36 |
| In the South | 6 | 20 |
| Foreign | 4 |  |
| Possessions | 1 |  |

Is the place where you have spent most of your postcollege years
In California 70
In the West 4
In the Midwest 6
In the East 11
In the South 6
Foreign 2
Possessions

Is the place where you are living now
In California 64
In the West $\quad 6$
In the Midwest $\quad 7$
In the East 11
In the South 9
Foreign 2
Possessions 1

Percent Percent Caltech U.S.

Were your college undergraduate grades
Mostly As 22

Mostly Bs 50
Mostly Cs 28
Mostly Ds (1 individual) 0
Income from occupation
Less than $\$ 1,000 \quad 4.2$
$\$ 1,000$ to $\$ 5,000 \quad 13.6$
$\$ 5,000$ to $\$ 7,000$ : 27.7
$\$ 7,000$ to $\$ 9,000 \quad 25.4$
$\$ 9,000$ to $\$ 19,000 \quad 26.2$
$\$ 19,000$ and over 2.9
Income from consulting fees

| None | 88.7 |
| :--- | ---: |
| $\$ 100$ to $\$ 500$ | .6 |

$\$ 500$ to $\$ 900 \quad 1.8$
$\$ 1,000$ to $\$ 5,000$. 5.0
$\$ 5,000$ to $\$ 100,000 \quad 1.9$
Income from other sources
Under \$1,000
87.1
$\$ 1,000$ to $\$ 2,000 \quad 9.3$
$\$ 2,000$ to $\$ 6,000 \quad 9.4$
$\$ 6,000$ to $\$ 50,000 \quad 3.2$
Total income

| Unider $\$ 5,000$ | 12.4 |
| :--- | :--- |
| $\$ 5,000$ to $\$ 8,000$ | 37.2 |
| $\$ 8,000$ to $\$ 11,000$ | 29.1 |
| $\$ 11,000$ to over $\$ 100,000$ | 21.3 |

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[^0]:    * 1937 survey of Caltech alumni
    ** Not tabulated

