

# Financial in Higher Education The Annual Report on the Economic Status of the Profession，2006－07 

nflation is down，and full－time faculty salaries are finally back up．These would seem to be encouraging signs for the economic status of higher education．Unfortunately， however，one good year cannot reverse discouraging trends that have been developing over decades．
Growing financial inequality in the United States has become a prominent public issue．In February 2007，President Bush publicly acknowledged the growing gap between rich and poor Americans and recommended that firms reconsider the size of the salaries they pay to chief executives．${ }^{1}$ In a fall 2006 speech， Janet Yellen，president of the San Francisco Federal Reserve Bank，said that U．S．income inequality has risen to such a level that＂there are signs that［it］is intensifying resistance to glob－ alization，impairing social cohesion，and could，ultimately， undermine American democracy．＂${ }^{2}$

Financial inequality is growing in U．S．higher education，too． In this report，we observe increasing differences between the en－ dowments of rich and poor institutions，between the salaries of college and university presidents and their faculties，between the salaries of athletic coaches and professors，and between well－ and poorly compensated faculty members．This economic in－ equality has the potential to negatively affect higher education． We will address this potential in the context of this year＇s survey findings．

## Average Salaries Up

In terms of the average salary for all full－time faculty members， 2006－07 was the best year since 2001－02．${ }^{3}$ Overall faculty salaries climbed 3.8 percent compared with the previous year． The inflation rate，as measured by the Consumer Price Index， was 2.5 percent between December 2005 and December 2006， lower than it had been the previous two years．Adjusted for
inflation，then，the average salary rose by 1.3 percent，the first ＂real＂increase in salaries since 2003－04．
Table A provides an overview of this year＇s findings，as well as a long－term review of the changes from year to year over the past three decades．The upper half of the table shows the change in both nominal（actual）and inflation－adjusted（real）salaries by rank from one year to the next when all ranked faculty mem－ bers at all institutions are considered．Among all faculty，the av－ erage salaries of full professors rose more than the pay of faculty in other ranks，but all ranks saw real increases of more than 1 percent．

The lower half of the table presents figures for faculty mem－ bers who remained in full－time positions at the same institu－ tions where they taught the previous year（＂continuing＂ faculty）．Increases this year were highest for associate and assistant professors．Because the figures for continuing faculty include raises arising from promotions and other factors，these ranks usually see the steepest increases．Unlike salary increases for all faculty，those for continuing faculty have exceeded the rate of inflation for more than two decades．

## A Closer Look

American higher education is characterized by tremendous institutional diversity．The tables and appendices in this report portray some of that diversity by presenting results from multi－ ple institutional categories．Colleges and universities are described in two ways：by category，which refers to the highest degree offered，and by affiliation，which groups institutions according to whether they are public，private－independent （non－church－related），or religiously affiliated．Survey report table 1 presents the percentage change in average salaries among full－time faculty from 2005－06 to 2006－07 for

Percentage Increases in Average Nominal and Real Salaries for Institutions Reporting Comparable Data for Adjacent One－Year Periods，and Percentage Change in the Consumer Price Index， 1971－72 through 2006－07

|  | Prof． | Assoc． | Asst． | Inst． | All Ranks | Prof． | Assoc． | Asst． | Inst． | All Ranks | Change in CPI |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | NOMINAL TERMS |  |  |  |  | REAL TERMS |  |  |  |  |  |
| ALL FACULTY |  |  |  |  |  |  |  |  |  |  |  |
| 1971－72 to 1973－74 | 9.7 | 9.6 | 9.1 | 8.8 | 9.4 | －2．7 | －2．8 | －3．3 | －3．6 | －3．0 | 12.4 |
| 1973－74 to 1975－76 | 12.4 | 12.1 | 11.7 | 12.3 | 12.1 | －7．7 | －8．0 | －8．4 | －7．8 | －8．0 | 20.1 |
| 1975－76 to 1977－78 | 10.1 | 10.4 | 10.3 | 10.4 | 10.2 | －1．8 | －1．5 | －1．6 | －1．5 | －1．7 | 11.9 |
| 1977－78 to 1979－80 | 13.5 | 13.2 | 13.1 | 12.8 | 13.3 | －10．0 | －10．3 | －10．4 | －10．7 | －10．2 | 23.5 |
| 1979－80 to 1981－82 | 18.6 | 18.1 | 18.7 | 17.5 | 18.5 | －3．9 | －4．4 | －3．8 | －5．0 | －4．0 | 22.5 |
| 1981－82 to 1983－84 | 11.2 | 11.0 | 11.9 | 12.1 | 11.4 | 3.5 | 3.3 | 4.2 | 4.4 | 3.7 | 7.7 |
| 1983－84 to 1985－86 | 13.2 | 12.7 | 13.2 | 12.5 | 13.1 | 5.3 | 4.8 | 5.3 | 4.6 | 5.2 | 7.9 |
| 1985－86 to 1986－87 | 6.0 | 5.8 | 5.7 | 4.9 | 5.9 | 4.9 | 4.7 | 4.6 | 3.8 | 4.8 | 1.1 |
| 1986－87 to 1987－88 | 5.0 | 4.8 | 4.9 | 3.8 | 4.9 | 0.6 | 0.4 | 0.5 | －0．6 | 0.5 | 4.4 |
| 1987－88 to 1988－89 | 5.8 | 6.7 | 6.0 | 5.3 | 5.8 | 1.4 | 2.3 | 1.6 | 0.9 | 1.4 | 4.4 |
| 1988－89 to 1989－90 | 6.3 | 6.3 | 6.3 | 5.4 | 6.1 | 1.7 | 1.7 | 1.7 | 0.8 | 1.5 | 4.6 |
| 1989－90 to 1990－91 | 5.5 | 5.3 | 5.5 | 5.0 | 5.4 | －0．6 | －0．8 | －0．6 | －1．1 | －0．7 | 6.1 |
| 1990－91 to 1991－92 | 3.4 | 3.5 | 3.8 | 3.9 | 3.5 | 0.3 | 0.4 | 0.7 | 0.8 | 0.4 | 3.1 |
| 1991－92 to 1992－93 | 2.6 | 2.3 | 2.6 | 2.3 | 2.5 | －0．3 | －0．6 | －0．3 | －0．6 | －0．4 | 2.9 |
| 1992－93 to 1993－94 | 3.0 | 3.1 | 3.0 | 3.2 | 3.0 | 0.3 | 0.4 | 0.3 | 0.5 | 0.3 | 2.7 |
| 1993－94 to 1994－95 | 3.4 | 3.4 | 3.2 | 3.5 | 3.4 | 0.7 | 0.7 | 0.5 | 0.8 | 0.7 | 2.7 |
| 1994－95 to 1995－96 | 3.1 | 2.9 | 2.7 | 2.6 | 2.9 | 0.6 | 0.4 | 0.2 | 0.1 | 0.4 | 2.5 |
| 1995－96 to 1996－97 | 2.9 | 3.0 | 2.4 | 3.2 | 3.0 | －0．4 | －0．3 | －0．9 | －0．1 | －0．3 | 3.3 |
| 1996－97 to 1997－98 | 3.6 | 3.2 | 2.8 | 2.6 | 3.3 | 1.9 | 1.5 | 1.1 | 0.9 | 1.6 | 1.7 |
| 1997－98 to 1998－99 | 4.0 | 3.6 | 3.5 | 2.9 | 3.6 | 2.4 | 2.0 | 1.9 | 1.3 | 2.0 | 1.6 |
| 1998－99 to 1999－00 | 4.3 | 4.0 | 3.9 | 3.7 | 3.7 | 1.6 | 1.3 | 1.2 | 1.0 | 1.0 | 2.7 |
| 1999－00 to 2000－01 | 4.4 | 3.9 | 4.4 | 3.6 | 3.5 | 1.0 | 0.5 | 1.0 | 0.2 | 0.1 | 3.4 |
| 2000－01 to 2001－02 | 4.2 | 3.8 | 4.8 | 4.2 | 3.8 | 2.6 | 2.2 | 3.2 | 2.6 | 2.2 | 1.6 |
| 2001－02 to 2002－03 | 3.4 | 3.1 | 3.8 | 2.2 | 3.0 | 1.0 | 0.7 | 1.4 | －0．2 | 0.6 | 2.4 |
| 2002－03 to 2003－04 | 2.4 | 2.0 | 2.3 | 2.0 | 2.1 | 0.5 | 0.1 | 0.4 | 0.1 | 0.2 | 1.9 |
| 2003－04 to 2004－05 | 3.4 | 3.0 | 3.2 | 2.7 | 2.8 | 0.1 | －0．3 | －0．1 | －0．6 | －0．5 | 3.3 |
| 2004－05 to 2005－06 | 3.7 | 3.3 | 3.3 | 3.2 | 3.1 | 0.3 | －0．1 | －0．1 | －0．2 | －0．3 | 3.4 |
| 2005－06 to 2006－07 | 4.2 | 3.9 | 4.1 | 3.9 | 3.8 | 1.7 | 1.4 | 1.6 | 1.4 | 1.3 | 2.5 |
| CONTINUING FACULTY |  |  |  |  |  |  |  |  |  |  |  |
| 1971－72 to 1973－74 | 10.4 | 12.4 | 12.8 | 13.7 | 11.9 | －2．0 | 0.0 | 0.4 | 1.3 | －0．5 | 12.4 |
| 1973－74 to 1975－76 | 14.3 | 15.7 | 16.5 | 17.9 | 15.6 | －5．8 | －4．4 | －3．6 | －2．2 | －4．5 | 20.1 |
| 1975－76 to 1977－78 | 12.5 | 13.2 | 13.5 | 13.7 | 13.0 | 0.6 | 1.3 | 1.6 | 1.8 | 1.1 | 11.9 |
| 1977－78 to 1979－80 | 15.2 | 16.3 | 17.4 | 18.0 | 16.1 | －8．3 | －7．2 | －6．1 | －5．5 | －7．4 | 23.5 |
| 1979－80 to 1981－82 | 19.9 | 21.0 | 22.4 | 22.3 | 20.9 | －2．6 | －1．5 | －0．1 | －0．2 | －1．6 | 22.5 |
| 1981－82 to 1983－84 | 13.3 | 13.9 | 15.3 | 14.7 | 14.1 | 5.6 | 6.2 | 7.6 | 7.0 | 6.4 | 7.7 |
| 1983－84 to 1985－86 | 14.2 | 15.1 | 16.3 | 16.1 | 14.9 | 6.3 | 7.2 | 8.4 | 8.2 | 7.0 | 7.9 |
| 1985－86 to 1986－87 | 6.3 | 6.7 | 7.0 | 6.5 | 6.6 | 5.2 | 5.6 | 5.9 | 5.4 | 5.5 | 1.1 |
| 1986－87 to 1987－88 | 6.1 | 6.6 | 7.1 | 6.9 | 6.5 | 1.7 | 2.2 | 2.7 | 2.5 | 2.1 | 4.4 |
| 1987－88 to 1988－89 | 6.4 | 7.1 | 7.6 | 7.4 | 6.8 | 2.0 | 2.7 | 3.2 | 3.0 | 2.4 | 4.4 |
| 1988－89 to 1989－90 | 6.9 | 7.4 | 7.8 | 7.5 | 7.3 | 2.3 | 2.8 | 3.2 | 2.9 | 2.7 | 4.6 |
| 1989－90 to 1990－91 | 6.1 | 6.8 | 7.2 | 7.0 | 6.6 | 0.0 | 0.7 | 1.1 | 0.9 | 0.5 | 6.1 |
| 1990－91 to 1991－92 | 3.9 | 4.5 | 4.9 | 5.1 | 4.3 | 0.8 | 1.4 | 1.8 | 2.0 | 1.2 | 3.1 |
| 1991－92 to 1992－93 | 3.2 | 3.7 | 4.2 | 4.4 | 3.6 | 0.3 | 0.8 | 1.3 | 1.5 | 0.7 | 2.9 |
| 1992－93 to 1993－94 | 3.8 | 4.4 | 4.7 | 4.5 | 4.2 | 1.1 | 1.7 | 2.0 | 1.8 | 1.5 | 2.7 |
| 1993－94 to 1994－95 | 4.1 | 4.7 | 4.9 | 4.9 | 4.6 | 1.4 | 2.0 | 2.2 | 2.2 | 1.9 | 2.7 |
| 1994－95 to 1995－96 | 3.7 | 4.1 | 4.5 | 4.4 | 4.0 | 1.2 | 1.6 | 2.0 | 1.9 | 1.5 | 2.5 |
| 1995－96 to 1996－97 | 3.0 | 4.0 | 4.2 | 4.6 | 3.5 | －0．3 | 0.7 | 0.9 | 1.3 | 0.2 | 3.3 |
| 1996－97 to 1997－98 | 4.0 | 4.6 | 4.8 | 5.0 | 4.3 | 2.3 | 2.9 | 3.1 | 3.3 | 2.6 | 1.7 |
| 1997－98 to 1998－99 | 4.5 | 5.0 | 5.3 | 5.3 | 4.8 | 2.9 | 3.4 | 3.7 | 3.7 | 3.2 | 1.6 |
| 1998－99 to 1999－00 | 4.5 | 4.9 | 5.4 | 5.3 | 4.8 | 1.8 | 2.2 | 2.7 | 2.6 | 2.1 | 2.7 |
| 1999－00 to 2000－01 | 5.0 | 5.4 | 5.8 | 5.8 | 5.3 | 1.6 | 2.0 | 2.4 | 2.4 | 1.9 | 3.4 |
| 2000－01 to 2001－02 | 4.8 | 5.1 | 5.7 | 5.4 | 5.0 | 3.2 | 3.5 | 4.1 | 3.8 | 3.4 | 1.6 |
| 2001－02 to 2002－03 | 4.1 | 4.4 | 4.7 | 4.5 | 4.3 | 1.7 | 2.0 | 2.3 | 2.1 | 1.9 | 2.4 |
| 2002－03 to 2003－04 | 2.8 | 3.3 | 3.5 | 3.8 | 3.1 | 0.9 | 1.4 | 1.6 | 1.9 | 1.2 | 1.9 |
| 2003－04 to 2004－05 | 4.2 | 4.7 | 4.8 | 4.7 | 4.5 | 0.9 | 1.4 | 1.5 | 1.4 | 1.2 | 3.3 |
| 2004－05 to 2005－06 | 4.1 | 4.7 | 4.8 | 4.4 | 4.4 | 0.7 | 1.3 | 1.4 | 1.0 | 1.0 | 3.4 |
| 2005－06 to 2006－07 | 4.7 | 5.3 | 5.4 | 5.1 | 5.0 | 2.2 | 2.8 | 2.9 | 2.6 | 2.5 | 2.5 |

Note：Consumer Price Index（CPI）obtained from the U．S．Bureau of Labor Statistics．The change in the CPI for all Urban Consumers，the percentage change that this table reports，is calculated from December to December．Salary increases for the years to 1985－86 are grouped in two－year intervals in order to present the full 1971－72 through current year series．Nominal salary is measured in current dollars．The percentage increase in real terms is the percentage increase in nominal terms adjusted for the percentage change in the CPI．Figures for All Faculty represent changes in salary levels from a given year to the next．Figures for Continuing Faculty represent the average salary change for faculty on staff at the same institution in both years over which the salary change is calculated．
institutions that reported data in both years．

In terms of the change in average salaries，shown on the left－hand side of the table，increases were highest this year at doctoral univer－ sities（category I）and associate－ degree colleges（categories III and IV）．A more significant finding， however，appears in the columns representing institutional affilia－ tion．For the first time in several years，average salaries increased more at public colleges and univer－ sities than they did at private－ independent or church－related in－ stitutions．Although the difference is not large，it probably reflects an effort by public institutions to make up for stagnant salaries over the past several years．
Increases for continuing faculty did not，however，vary much across institutional types．The figures for continuing faculty increases are on the right－hand side of the table． With only a few exceptions，contin－ uing faculty saw average raises of about 5 percent，regardless of where they were employed．

Survey report tables 2 and 3 break down changes in salary by institutional type．Survey report table 2 shows the change in aver－ age salary levels，while survey re－ port table 3 describes the average raises received by continuing fac－ ulty．The left－hand side of each table presents the distribution in terms of the percentage of institu－ tions，and the right－hand side cate－ gorizes the total number of full－ time faculty at those institutions．

Survey report table 2 indicates that average salary levels at 61 per－ cent of institutions outpaced the rate of inflation，rising by 3 percent or more．Compared with private colleges and universities，a higher percentage of public institutions

| Table B <br> Market Value of the Ten Largest University Endowments，2005－06 |  |  |  |
| :---: | :---: | :---: | :---: |
| Rank | Institution | Market <br> Value of Endowment （millions） | Percent <br> Change from Prior Year |
| 1 | Harvard University | 28，916 | 13.5 |
| 2 | Yale University | 18，031 | 18.4 |
| 3 | Stanford University ${ }^{\text {a }}$ | 14，085 | 15.4 |
| 4 | University of Texas | 13，235 | 14.0 |
| 5 | Princeton Universily | 13，045 | 16.4 |
| 6 | Massachusefts Institute of Technology | 8，368 | 24.7 |
| 7 | Columbia University | 5，938 | 14.4 |
| 8 | University of Califomia | 5，734 | 98 |
| 9 | University of Michigan | 5，652 | 14.6 |
| 10 | Texas A\＆M University and Foundation | 5，643 | 13.7 |
| Note：The markat value is as of June 30，2006． <br> Sounce National Association of College and University Business Ollibars， 2006 Entomien Sudy． <br> a．Nowket value is of August 31， 2006. |  |  |  |

had average salary levels that out－ paced the inflation rate，and a greater percentage of public col－ leges and universities were in the highest category of increase－ those where average salary levels rose by 6 percent or more．But the news wasn＇t all good for public institutions．Average salary levels decreased at nearly 8 percent of col－ leges and universities，and public institutions were more likely to fall into this group as well．（Decreases in the overall average salary for a particular college or university usu－ ally indicate a substantial shift from senior to more junior faculty， often as older faculty retire．）
In terms of the number of faculty members affected by changes in salary levels，two－thirds worked at
institutions reporting that average salary levels rose by at least 3 per－ cent over the previous year．Again， compared with faculty at private institutions，a larger percentage of public college and university fac－ ulty members were employed at institutions that saw that level of increase．
Average raises for continuing faculty were even more concen－ trated at the higher levels．Nearly half of the institutions represented in survey report table 3 conferred average raises of 5 percent or more for continuing faculty，and nearly 90 percent of institutions reported average increases exceeding the rate of inflation．Notably，however， a greater percentage of private－ independent institutions reported
average raises for continuing fac－ ulty at the highest levels compared with public and religiously affili－ ated colleges and universities．
When counting faculty members in table 3，however，a higher per－ centage of those working at public colleges and universities received raises at the highest levels（ 6 per－ cent or more）compared with those at private institutions．That is be－ cause public colleges and universi－ ties tend to be larger than private institutions in the same category．

## Endowments

Institutions increasingly rely on returns on their endowment invest－ ments to finance faculty salaries， facilities maintenance，educational technology，and other operating
costs．Investment income can make a significant difference in the funds available to an institution．Private colleges and universities have long depended on it，and public univer－ sities have undertaken major capi－ tal campaigns over the past decade to make up for decreases in state appropriations．Twenty－four uni－ versities are now engaged in capital campaigns of at least $\$ 1$ billion．${ }^{4}$

Data collected from the 765 institutions that participated in the 2006 Endowment Study con－ ducted by the National Association of College and University Business Officers suggest that colleges and universities have used an average of 4.5 to 5.1 percent of their total endowment assets over the past ten years to finance annual expendi－
tures．${ }^{5}$ This percentage is referred to as the institution＇s＂spending rate．＂ Remarkably，as figure 1 illustrates， even though the market value of endowments varies dramatically across institutions，spending rates diverge by only a few tenths of a percent．Together，the institutional participants in the study had a total of more than $\$ 340$ billion in endowment assets．Given an aver－ age spending rate of 4.6 percent， endowment assets contributed $\$ 15.6$ billion toward their expendi－ tures for the fiscal year that ended June 30， 2006.
The amount of revenue that a particular college or university gains from its endowment income varies dramatically between institutions with large endowments and those

FGIUAE 1
Spending Rate from Endowment，Fiscal Year 2006


Endowment Size
Sauce：National Assocition of Colege and Urinersty Business Officers， 2006 Endownent Study．
with smaller ones．Table B depicts the market value of the ten largest university endowments on June 30， $2006 .{ }^{6}$ According to the 2006
Endowment Study，the sixty－two institutional respondents that had endowment assets of $\$ 1$ billion or more represented only 8.1 percent of the colleges and universities participating in the survey．Yet those sixty－two institutions owned 67.4 percent of all endowment as－ sets．Institutions that had endow－ ments of $\$ 100$ million or less re－ presented more than half of the responding institutions but owned just 5 percent of total endowment assets．

Drawing on data from figure 1 and the 2006 Endowment Study， we can estimate the amount of
funds available to institutions from their endowments．With an en－ dowment of $\$ 28.9$ billion and a spending rate of approximately 4.6 percent，Harvard University had about $\$ 1.3$ billion in revenue avail－ able to flow into its operating budget in fiscal 2006．These funds could help provide the highest－ quality learning facilities and offer faculty salaries that enable the university to recruit the most tal－ ented faculty away from other positions in academe，government， or the private sector．By contrast， Mount Ida College of Massachusetts reported an endowment of $\$ 8.7$ million．Assuming a spending rate of 4.4 percent，that yields about $\$ 383,900$ in funds to finance its educational programs in fiscal

2006，approximately 0.03 percent of what Harvard had to spend．
Large endowments also make possible investment opportunities that enable endowments to grow． According to the 2006 Endow－ ment Study，institutions that had endowments of more than $\$ 1$ bil－ lion invested an average of 36 percent of their endowments in ＂alternative assets，＂such as hedge funds，which are more risky than other assets but potentially produce higher yields．By contrast，institu－ tions that had endowments of less than $\$ 100$ million invested an average of less than 10 percent of their endowments in alternative assets．They favored traditional stock and bond assets，which are less risky but also yield lower rates

FICURE 2
Average One－Year Rate of Return from Endowment Investment，Fiscal Year 2005


Soure：National Association of Colege and Uriversiy Business Officers， 2006 Endowment Study．
of return．As figure 2 shows，institu－ tional respondents to the 2006 Endowment Study that had the largest endowments enjoyed an average one－year rate of return of 15.7 percent，nearly double the 7.8 percent average return rate for the institutions that had the smallest endowment．This substantial differ－ ence in investment returns suggests that the gap in institutional wealth among colleges and universities is likely to grow larger．

For decades，U．S．higher educa－ tion has been a ticket to a more prosperous lifestyle for millions of American and international stu－ dents．But in the knowledge－based economy in which we now operate， education also contributes to in－ come inequality．Differences in the size and income of college and
university endowments are worri－ some because they yield significant differences in the amount of re－ sources individual institutions have available to build top－notch educa－ tional facilities and offer salaries and benefits that allow them to re－ cruit and retain the most talented faculty．We in the higher education community need to ask how the growing endowment gap will affect the desirability of an academic ca－ reer at less well－funded institutions and how，in turn，that will affect the quality of education available to students and income inequality among them．

## Presidential Salaries

Compensation for chief executives is another area in which academe mimics the broader economy．In

1965，the average corporate chief executive officer earned twenty－four times as much as the average worker．${ }^{7}$ By 2005，average CEO pay was 262 times the pay of an aver－ age worker．During the past decade， chief executives of colleges and universities have also experienced extraordinary increases in their compensation．As Figure 3 illus－ trates，the inflation－adjusted salaries of chief executives in high－ er education increased by more than 35 percent from 1995－96 to 2005－06，while the inflation－ adjusted salaries of faculty mem－ bers increased a mere 5 percent． Inflation－adjusted endowments grew an average of 82 percent dur－ ing that time．These figures raise a question of priorities：if insti－ tutional endowment funds and pre－

FIGURE 3
Inflation－Adjusted Increase in Average Faculty Salary，Presidential Salary，and Institutional Endowment，1995－96 to 2005－06


Source：Oata on presidentid salariss from Cologe and University Prolessicnal Association for Human Resourtes，Adrinisfofive Compsosabon Suveg，verisus yaars．Dits of entowment retums from Mationsl ksocistion of Colloge and University Basinssa Offers，Findowner Stuly，visious years．
sidential compensation grew at substantial rates，why should fa－ culty compensation remain so depressed？

In its 2006 survey of executive compensation，the Cbronicle of Higher Education reported that 112 of the 853 chief executives surveyed had compensation pack－ ages totaling at least $\$ 500,000 .{ }^{8}$ In 1996，only one president received a compensation package in excess of $\$ 500,000 .{ }^{9}$ Five chief executives currently receive more than $\$ 1$ mil－ lion in compensation．

Data from the AAUP survey，pre－ sented in survey report table 15 ， provide another indicator of the salaries of presidents relative to those of faculty．This comparison is important，because presidents are more commonly compared to cor－ porate CEOs．Such a comparison is inappropriate，however，as nearly all colleges and universities are still not－for－profit enterprises providing a benefit for society as a whole－ not just for shareholders．The table shows a ratio of presidential salary to the average salary for a full pro－ fessor on that campus．The ratio for 2006－07 ranges from 1.24 at one private baccalaureate college to 6.82 at one private master＇s degree university．The median figures，rep－ resenting the middle of the range from high to low in each category， indicate that most presidents earn three times the salaries paid to their senior faculty members．Why are these trends in executive compen－ sation problematic？

Individuals who possess the mo－ tivation and the talent to obtain terminal degrees in their disciplines also have the ability to take highly paid positions in the corporate sector．When a professor decides to forsake a higher salary in private industry for the less tangible
rewards of educating generations of students，he or she provides a pub－ lic service．College and university presidents are also engaged in pub－ lic service．Among other leadership duties，they serve as role models for faculty，staff，and students at their institutions．In years when budgets are tight，presidents should lead by example and neither seek nor ac－ cept annual salary increases in excess of those awarded to other employees．Likewise，when the fi－ nancial environment improves，the generous compensation packages necessary to recruit and retain the most highly qualified chief execu－ tives should also be extended to the faculties they lead．
Some observers justify offering chief executives compensation in excess of that awarded to faculty by noting that the total cost to the university is relatively small when the CEO is highly compensated．A 10 percent pay increase for a uni－ versity president earning $\$ 500,000$ requires just $\$ 50,000$ in additional spending in the following year．A 10 percent salary increase for five hundred faculty members earning the 2006－07 average salary of $\$ 73,207$（see survey report table 4） would create $\$ 3,660,334$ in addi－ tional expenditures．Even a 1 per－ cent faculty salary increase（\＄732 for each person in this example） would require $\$ 366,033$ in addi－ tional spending．It is often argued that when tight budgets permit only such a minimal increase－ which faculty would not miss，it is said－it is much better，in terms of recruitment，retention，and morale， to give a few large salary increases to senior administrators instead．
This argument is wrong for many reasons．Although an addi－ tional $\$ 732$ in pretax income may not be sufficient to finance a family
vacation，pay for new living－room furniture，or replace a twelve－year－ old roof，it is not an insignificant amount．For this author and her children，that $\$ 732$ would buy take－ out pizza two nights a month－ twenty－four nights a year of not having to cook dinner．It would also finance numerous other things that would make a professor＇s life easier and more enjoyable：help with housekeeping or clothes for a child or for oneself．Moreover，a sin－ gle percentage point salary increase for an average assistant professor （see survey report table 4）earning $\$ 58,662$ in 2006－07 would yield an additional $\$ 17,599$ in pretax in－ come over a thirty－year career，even before compounding through an－ nual percentage salary increases． Invested tax free in a 403 （b）retire－ ment plan，that＂negligible raise＂ would ultimately yield hundreds of thousands of dollars．

## Salaries of Coaches

The January 2007 announcement that Nick Saban，head coach of the Miami Dolphins professional foot－ ball team，would leave his position to coach at the University of Alabama rolled through academe like a tidal surge．Saban＇s eight－ year contract guarantees him \＄32 million plus the opportunity to earn an additional \＄700，000 to $\$ 800,000$ annually in bowl－game bonuses．James Duderstadt，former president of the University of Michigan and a member of the U．S．Secretary of Education＇s Commission on the Future of Higher Education，echoed the sen－ timents of many when he noted that the decision by a university that ranks near the bottom of state spending on higher education to pay its head football coach $\$ 4$ million a year sends the wrong

## Table C

## Compensation for Full Professors，University Presidents，and Head Football Coaches at NCAA Division I－A Universities

|  | Average | High | Low | $\begin{gathered} \text { Sample } \\ \text { Size } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| Salay，Ful Professorr | \＄101，774 | （Duke Univ．）$\$ 136374$ | $\text { (Marshall Univ.) } \$ 33,030$ | 104 |
| Compensation University President ${ }^{\text {b }}$ | \＄416，719 | （Univ．of Southern Califoriaia） | （Univ．of Memphis）$\$ 228,442$ | 92 |
| Compensation．Head Fcothall Caach ${ }^{\circ}$ | \＄918，238 | $\begin{aligned} & \$ 3,50,000 \\ & \text { (Univ. of Oklahoma) } \end{aligned}$ | $\$ 130,000$ （Univ．of Louisiana－Moncoe） | 107 |
| Compersation Ratio： Head Foothall Coach to Full Prolessor | 9.4 | （Univ．of Oklatoma） 362 | （Miami Univ．of Ohio）${ }^{1.5}$ | 104 |
| Compensation Ratio： Head Foolball Coach to Presidert： | 2.4 | （Univ．of Oklatoma） 11.1 | （Miami Univ．of Ohio）${ }^{0.3}$ | 92 |


 07．Data for eleven utiriersity presidents＇osmpenesfon for 2004－05．

 pus＂offer inome＂Does not include boluses awarded for attining parfoular benchmarls for exanple，wiming a boel game）
message about priorities．According to the National Association of State Student Grant and Aid Programs， the state of Alabama＇s entire budget for need－based financial aid was just $\$ 3.35$ million in 2004－05．${ }^{10}$

Some people justify huge sala－ ries for superstar coaches by argu－ ing that high－profile coaches produce winning seasons that result in additional alumni giving or net profits in the athletic budg－ et．Theoretically，these additional revenues can then be used to sup－ port the academic mission of a university．In their 2001 book， The Game of Life：College Sports and Educational Values，higher education scholars James Shulman and William Bowen cite data from different sources to debunk these myths．Surprisingly，they find a correlation between winning and alumni giving only at co－ed liberal arts colleges．But these institutions rarely pay even six figure salaries

Shulman and Bowen also report that athletic revenue（including
gate receipts，revenue from bowl games，and television contracts） typically falls short of expenditures． They estimate the annual net cost of a National Collegiate Athletic Association（NCAA）Division I－A athletic program in the late 1990s to have been in the $\$ 7$ to $\$ 8$ million range．In 2002－03 Revenues and Expenses of Divisions I and II Intercollegiate Athletics Pro－ grams，the NCAA states that only 40 percent of Division I－A universi－ ties reported profits in their athletic programs．The other 60 percent ran average deficits of $\$ 4.4$ million． And no more than 11 percent of colleges and universities in other NCAA divisions reported a profit from their athletic programs．

Table C compares recent com－ pensation provided to coaches at universities with Division I－A ath－ letic programs to that of full profes－ sors and university presidents．Be－ cause the data vary considerably， the table presents averages，highs， and lows．Salary for full professors ranged from $\$ 63,030$ at Marshall

University to \＄136，374 at Duke Uni－ versity；the weighted average for the sample was $\$ 101,744$ ．University presidents earned $\$ 416,719$ on av－ erage，with the highest compensa－ tion going to the president of the University of Southern California and the lowest to the president of the University of Memphis．

Coaches＇compensation（exclud－ ing bonuses but including salary plus＂other income＂）averaged just under $\$ 1$ million，with substantial variation between the highest－ （University of Oklahoma）and the lowest－paid football coach（Univer－ sity of Louisiana－Monroe）．

If paychecks reflect the value of an individual to the university and its core educational mission，then Division I－A head football coaches are，on average， 9.4 times more valuable than their full professor colleagues．By this metric，the head football coach at the University of Oklahoma is 36 times more valu－ able than an average full professor at his university．The data suggest that even university presidents are
less valuable to these institutions than football coaches．On average， coaches earned more than twice as much as their institution＇s chief executive officer．While Miami Uni－ versity of Ohio appears to place a greater premium on the skills of its chief executive than on its head football coach，the University of Oklahoma apparently values its football coach eleven times as much as its president．

We might ask what message uni－ versities send to alumni，taxpayers， students，faculty，and staff when they pay such exorbitant salaries to their coaches．The U．S．House Ways and Means Committee has report－ edly asked the NCAA to explain why coaches are paid so much and whether athletic departments with millions of dollars in revenue de－ serve tax－exempt status．${ }^{11}$ Perhaps
these congressional hearings will inspire university administrators and governing boards to rethink who is contributing to their core educational missions and reward the people who are teaching the students a bit more appropriately．

## Inequality Among Faculty

Income inequality in the broader U．S．economy far exceeds that observed among higher education faculty．In 2005，the income of households at the twentieth per－ centile among all American house－ holds was just 11.6 percent of the household income at the ninety－ fifth percentile．${ }^{12}$ Thus a household at the twentieth percentile took in total income that was only about one－tenth as much as that avail－ able to a household at the ninety－ fifth percentile．

Figure 4 shows an equivalent measure of inequality in the aver－ age salaries of full professors，com－ paring the average at the twentieth percentile to that at the ninety－fifth by institutional type．The closer the average at the twentieth percentile is to 100 percent of the ninety－fifth percentile figure，the smaller the amount of income inequality．As salary differences increase between the least－and best－paid faculty members，some qualified academ－ ics will probably leave academe or choose private－sector jobs in the first place．This phenomenon would directly affect the quality of higher education in the United States．

Although income differences among professors are smaller than those among American workers overall，professorial income has

FIGURE 4
Full Professor Salary，Ratio of Twentieth Percentile to Ninety－fifth Percentile Average，by Institutional Gategory，1985－87 to 2005－06

varied substantially by institutional type in recent decades．As figure 4 illustrates，full professors at the twentieth percentile in 2005－06 received between 54 and 65 percent of the salary received by full pro－ fessors at the ninety－fifth percentile． The ratio was smallest at baccalau－ reate colleges（category IIB）and highest at master＇s universities （category IIA）．As the downward slope in most of the trend lines dem－ onstrates，the differential in com－ pensation among full professors grew during the last twenty years． Community colleges with academic ranks（category III），which exhib－ ited the least variation in 1986－87， showed greater income differences by 2005－06 than either doctoral （category I）or master＇s universities．

Figure 5 compares assistant pro－ fessor salaries by institutional type．

As the figure illustrates，assistant professors experienced slightly less variation in income by institution in 2005－06 than full professors did． Assistant professors at the twentieth percentile received between 66 and 73 percent of the average salary of assistant professors at the ninety－ fifth percentile．The fact that assis－ tant professors are more mobile than their senior colleagues may partly explain the smaller range in assistant professor salaries．Colleges and universities must keep salaries for junior faculty competitive or risk losing them to better－paying institutions．Typically，there are more junior－than senior－level job openings，which also enhances the mobility of junior faculty．Senior faculty may also have deeper roots in their communities，thus increas－ ing the nonmonetary costs of mov－
ing．Given such differences in the academic job markets for junior and senior faculty，even institutions under budgetary pressure would feel obliged to pay competitive salaries to recruit and retain junior faculty．The limited mobility of sen－ ior professors can lead to salary compression－which occurs when experienced faculty are paid only slightly more than their junior colleagues－and may also result in larger salary variation between more wealthy and less wealthy institutions．

The smaller range in assistant professor salaries may also arise be－ cause faculty members just begin－ ning their careers may resemble one another in their demonstrated research and teaching skills to a greater degree than they will later in their careers．Certainly，the dif－

RGURE 5
Assistant Professor Salary，Ratio of Twentieth Percentile to Ninety－fifth Percentile Average，by Institutional Category，1986－87 to 2005－06

ference in scholarly production be－ tween the most－and the least－ published full professors exceeds that between the most－and least－ published assistant professors．Dif－ ferences in teaching ability may also be more marked at senior lev－ els．These larger skill differentials could contribute to the larger varia－ tion in salaries at the full professor level．

The range of salary variation among assistant professors ex－ panded slightly over the past two decades．Among assistant professors at community colleges，however， the distance between high and low salaries actually declined．In 1986－87，assistant professors at the twentieth percentile at community colleges earned 67 percent as much as assistant professors at the ninety－ fifth percentile．By 2005－06，how－ ever，assistant professors at the twentieth percentile at community colleges earned almost 73 percent as much as those at the ninety－fifth percentile．

It is possible that faculty have not experienced income inequality to the same degree as the average American partly because professors are highly educated．Still，income inequality is a matter of concern in higher education，especially insofar as it decreases faculty members＇ recognition of their shared profes－ sional interests．

## Disciplinary Differences

Over the past twenty years，the AAUP has periodically analyzed differences in faculty salaries by discipline．To do so，the Associa－ tion has drawn on data from an annual survey of faculty salaries conducted since 1974 by the Office of Institutional Research at Oklahoma State University．Most of the institutions included in the
sample belong to the National Association of State Universities and Land Grant Colleges；many are the＂flagship＂doctoral－granting universities of their states．Although the sample is only a subset of the universities included in the AAUP＇s sample of doctoral－granting universities－primarily larger pub－ lic universities－the consistent membership of the Oklahoma State group facilitates analysis over time．

Table D shows average discipli－ nary salaries for full professors at intervals from 1985－86 to 2005－06． Table E presents average discipli－ nary salaries for assistant profes－
sors over the same intervals．For convenience，salaries in the sixteen disciplines included and the all－ discipline average are computed as a percentage of salaries in English language and literature．

Little research has been done to quantify the factors that cause disciplinary differences in salaries． Sociologist Marcia Bellas，however， examined the effects of numerous variables on differences in average entry－level salaries for 1988－89 for full－time assistant professors in sixteen different disciplines．${ }^{13}$ Vari－ ables that affected salary differen－ tials included unemployment rates

| Table D <br> Average Salaries of Full Professors， by Discipline，as a Percentage of the Average Salaries of Full Protessors of English Language and Literature，1985－86 to 2005－06 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Discipline | $\begin{gathered} 1985-86 \\ (\mathrm{~N}=76) \end{gathered}$ | $\begin{aligned} & 1991-92 \\ & (N=78) \end{aligned}$ | $\begin{aligned} & 1996-97 \\ & (N=84) \end{aligned}$ | $\begin{gathered} 2001-02 \\ (\mathrm{~N}=95) \end{gathered}$ | $\begin{aligned} & 2005-06 \\ & (N=100) \end{aligned}$ |
| Business Administration and Managament | 1152 | 133.8 | 1387 | 140.8 | 146.5 |
| Communications | 98.3 | 102.6 | 1019 | 97.1 | 96.7 |
| Computer and Information Sciences | 117.6 | 132.2 | 128.1 | 128.7 | 127.5 |
| Economics | 111.3 | 128.4 | 125.7 | 126.4 | 132.4 |
| Education | 98.0 | 98.8 | 992 | 97.5 | 96.2 |
| Engineering， | 114.3 | 129.0 | 1278 | 124.0 | 124.3 |
| Fine Atts Visual and Perlorming | 904 | 92.1 | 903 | 88.9 | 124.3 |
| Foreign Language and Literature | 562 | 98.5 | 1005 | 96.1 | 95.5 |
| Health Profassions and Related Sciences | 1198 | 134.3 | 136.4 | 131.3 | 118.1 |
| Law and Legal Studes | 141.0 | 154.2 | 158.4 | 153.5 | 154.0 |
| Library Scienos | 994 | 109.9 | 1066 | 103.5 | 97.9 |
| Mathematics | 104.4 | 111.0 | 1115 | 106.8 | 106.8 |
| Philoscoty | 96.2 | 102.0 | 101.1 | 97.1 | 100.0 |
| Prysical Sciences | 1080 | 114.9 | 1145 | 112.8 | 112.1 |
| Psychology | 101.6 | 109.5 | 109.7 | 108.3 | 109.0 |
| Social Sciences | 108.2 | 109.0 | 108.7 | 109.2 | 114.1 |
| All Discipline Average | 1061 | 113.3 | 1139 | 112.2 | 112.0 |
|  Marazanemt Okatome Sate Universty，various years． |  |  |  |  |  |

within specific disciplines，the per－ centage of qualified individuals in a field who were in nonacademic jobs，the median nonacademic wage in a field，productivity（as measured by publications and grant support），the percentage of faculty holding a PhD ，and the percentage of women faculty with－ in a discipline．Bellas found that lower－paying disciplines tended to have more unemployment，lower median wages in nonacademic jobs，fewer terminal degree recipi－ ents employed outside of academe， and relatively higher concentra－ tions of women．

The Oklahoma State data show that salary differences among full professors in many disciplines tended to peak in the early to mid－ 1990s and then fall somewhat．That happened in communications，com－ puter science，engineering，health sciences，law，mathematics，physi－ cal sciences，and the all－discipline average．Different causal factors appear to be important in different disciplines．In health sciences，col－ leges and universities have added degree programs（and faculty）to prepare students for occupations， such as respiratory therapist and physician assistant，that pay less

| Table E <br> Average Salaries of Assistant Protessors， by Discipline，as a Percentage of the Average Salaries of Assistant Protessors of English Language and Literature，1985－86 to 2005－06 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Discipline | $\begin{aligned} & 1985-86 \\ & (\mathrm{~N}=76) \end{aligned}$ | $\begin{aligned} & 1991-92 \\ & (N=78) \end{aligned}$ | $\begin{aligned} & 1996-97 \\ & (\mathrm{~N}=84) \end{aligned}$ | $\begin{gathered} 2001-02 \\ (\mathrm{~N}=95) \end{gathered}$ | $\begin{aligned} & 2005-06 \\ & (\mathrm{~N}=100) \end{aligned}$ |
| Business Administration and Managerment <br> Communications <br> Computer and <br> Intormation Sciences <br> Economics <br> Education <br> Engineering <br> Fine Acts：Visual and Performing <br> Foreign Language and Literalure <br> Heath Prolessions and Related Sciences <br> Law and Legal Shodiss <br> Library Science <br> Mathematics <br> Philosoptry <br> Physical Sciencas <br> Psychology <br> Social Sciences <br> All Discipline Averaga | $\begin{array}{r} 148.5 \\ 109.0 \\ 149.8 \\ 124.8 \\ 106.3 \\ 144.0 \\ 96.9 \\ 101.3 \\ \\ 183.5 \\ 164.6 \\ 108.9 \\ 113.0 \\ 98.7 \\ 116.6 \\ 108.5 \\ 108.2 \\ 119.8 \end{array}$ | $\begin{aligned} & 1694 \\ & 1090 \\ & \\ & 1482 \\ & 1328 \\ & 105.4 \\ & 144.9 \\ & 97.0 \\ & \\ & 1010 \\ & \\ & 1462 \\ & 1792 \\ & 112.1 \\ & 116.1 \\ & 99.7 \\ & 1172 \\ & 109.1 \\ & 1095 \\ & 123.4 \end{aligned}$ | 166.4 104.6 <br> 143.8 131.0 102.6 136.5 <br> 93.7 <br> 97.4 <br> 148.8 173.9 105.5 112.3 $95 . \mathrm{B}$ 113.8 107.3 107.0 120.4 | $\begin{array}{r} 189.8 \\ 106.5 \\ \\ 161.6 \\ 140.8 \\ 104.9 \\ 142.6 \\ 96.4 \\ \\ \hline 6.3 \\ \\ 154.9 \\ 1665.5 \\ 1130 . \\ 114.7 \\ 96.3 \\ 117.5 \\ 10.7 \\ 110.2 \\ 125.1 \end{array}$ | $\begin{array}{r} 201.9 \\ 104.8 \\ \\ 159.5 \\ 151.4 \\ 104.3 \\ 144.2 \\ 96.4 \\ \\ 98.5 \\ \\ 139.4 \\ 165.9 \\ 109.1 \\ 116.2 \\ 97.7 \\ 118.4 \\ 110.0 \\ 118.0 \\ 125.5 \end{array}$ |
| Sounce：Faclly Splay S tion Maragement，OWhome | ey by Disc Ste Urivers | he Office y，various | Institutiona ars | Fesearch an | Intorma－ |

than the medical specialties that dominated this field two decades ago．In computer science，the de－ cline in relative faculty salaries pro－ bably reflects weakness in private－ sector demand for computer profes－ sionals following the＂dot－com bust．＂Private－sector salaries may also be falling because of the out－ sourcing of jobs in software engi－ neering．Similarly，increased use of low－paid postdoctoral fellows in the physical sciences may be responsi－ ble for inhibiting salary growth in those fields．
Faculty in business administra－ tion and law had the largest salary differentials relative to English faculty in 2005－06．Full professors in business earned 47 percent more on average than their English fac－ ulty colleagues，while full profes－ sors of law earned 54 percent more． Business faculty，unlike their col－ leagues in law，have enjoyed a continually larger salary differen－ tial compared with English faculty over the past twenty years．Their experience likely mirrors the grow－ ing income inequality in the over－ all economy，where the salaries of workers at the ninety－fifth per－ centile increased much more rap－ idly than those of other groups． As the salaries of corporate execu－ tives continue to rise at a rapid clip，universities must pay higher salaries to recruit and retain busi－ ness school faculty．The current state of the U．S．and global econ－ omy makes a reversal of this trend seem unlikely．The salary differen－ tial in the social sciences relative to English also increased steadily during the past twenty years， although not as much as in busi－ ness．No doubt this growth arises at least partly from rapidly in－ creasing salaries for economics professors．

The salary differentials between the higher－paying disciplines and English are larger at the assistant professor level than at the full pro－ fessor level，probably because of greater outside economic opportu－ nities for junior faculty in these dis－ ciplines compared with senior fac－ ulty．A new PhD recipient in fi－ nance who can move with ease from an academic position to a cor－ porate job requires more induce－ ment to stay put than a finance professor who has spent most of his or her career in academe．Com－ pared with salaries in English，sala－ ries for assistant professors in com－ munications，engineering，the health professions，and law appear to have peaked in the 1990s．Over the past several years，the salary differential between English and these disciplines has grown smaller． The best－paid disciplines for assis－ tant professors are business（101．9 percent more than English），com－ puter science（ 59.5 percent more）， and law（ 65.9 percent more）．

Observers of higher education over the past two decades have wor－ ried that widening salary differen－ tials across disciplines would dam－ age the cooperative relationship among faculty that sustains effec－ tive shared governance．Although some of the disciplinary differen－ tials that emerged and grew during the 1980s have diminished，others， particularly in business，have grown and will probably continue to do so．

In its Statement on Govern－ ment of Colleges and Univer－ sities，the AAUP maintains that ＂［ t$]$ he faculty should actively par－ ticipate in the determination of policies and procedures governing salary increases，＂as part of its role in a system of shared governance． The faculty role in financial deci－ sion making includes participation
in determining both individual salaries and institutional priorities． In American society，talking about individual salaries and income inequality has sometimes been considered impolite．As we have argued in this report，however，it is a subject that we must discuss openly and frankly，because fi－ nancial inequality has significant implications for the quality of higher education．We hope that this report provides a substantive basis for such discussion．

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