Six States, One Destiny
Critical Issues for New England

WILLIAM MASS AND DAVID C. SOULE

Midway through the first decade of the 21st century, New England faces challenges that will test the heart and soul of the six states. Other regions of the nation and the world challenge our strengths in innovation and creative capacity. We need foresight to understand what our emerging economic sectors need to thrive. At the same time, our demography is changing. We are losing 20- to 34-year-olds and seeing a growing disparity in household incomes in every state. Some folks are doing quite well; others are struggling. Some of our local governments offer the purest form of democracy in the world—the open town meeting—but reliance on local property tax creates pressure for ever-more growth to pay for local services. While New England states tend to “go it alone” in responding to change, there are some things governors and legislators should not do alone. We need to focus our still considerable political strength on cooperative action.

Economic Development
One challenge we face is that our economic region is different from our political boundaries. Within New England, a number of regions that straddle state borders are forming out of economic necessity. The region’s interstate highways offer case studies of how interlinked the state economies have become.

Interstate 93, home of Boston’s “Big Dig,” links two of the region’s major airports while carrying a significant volume of interstate commuters to and from high-tech firms in Massachusetts and New Hampshire. As New Hampshire prepares to widen its portion of the road, it has also taken on the responsibility for managing the growth that comes from highway expansion. Meanwhile, Interstate 91 has been dubbed the region’s “knowledge corridor” by a coalition of leaders in Massachusetts and Connecticut as they conduct the “unnatural act” of cross-border collaboration aimed at capitalizing on the corridor’s higher education resources. The I-95 corridor passes through five of the six states on its way south to Florida, leading to many joint strategies. I-89 offers the same opportunity for New Hampshire and Vermont.

The New England states share the promise of these economic corridors, but also the reality of very slow job growth. Employment in New England has grown more slowly than the U.S. average over the past 15 years. The two largest New England states—Connecticut and Massachusetts—ranked 50th and 48th, respectively, in employment growth during this period. Rhode Island was 47th and Maine, New Hampshire and Vermont were all in the bottom half of the states.

A Half Century of New England Higher Education and Economic Development

A Timeline …

In the decade following World War II, 7.8 million U.S. veterans enrolled in education programs with tuition fully paid under the G.I. Bill. From 1939 to 1954, college enrollment in New England nearly doubled, rising from 88,428 to 172,093. Further growth seemed assured. Nearly twice as many babies were born in the United States in 1956 as in 1936. Also, the U.S. Supreme Court’s 1954 Brown v. Board of Education ruling was ushering in an era of progress—and setbacks—toward equal educational opportunity. And the Russians were coming. Or so everyone thought. Cold War R&D would help New England universities such as the Massachusetts Institute of Technology become research giants.

Against this backdrop, six visionary New England governors—Abraham A. Ribicoff of Connecticut, Edmund S. Muskie of Maine, Christian A. Herter of Massachusetts, Lane Dwinell of New Hampshire, Dennis J. Roberts of Rhode Island, and Joseph B. Johnson of Vermont—forged the New England Higher Education Compact. In 1955, the New England Board of Higher Education was established to pursue the compact’s aims, namely to expand educational opportunity and foster cooperation among the region’s colleges and universities.

Here is some of what happened after that …
The employment impacts of the early 1990s recession were more severe in all six New England states than elsewhere. Indeed, the six states ranked among the eight most severely impacted in the nation in terms of job loss. While New England experienced rapid job growth during the late 1990s, much of that was making up for ground lost in the deep recession of the first half of the decade. The 2001 recession was less severe nationally than that of the early 1990s. But the jobless recovery that followed lasted four years before peak employment levels were recaptured—more than twice as long as it took to get back to peak job levels following the recession of the ’90s.

U.S. employment peaked in February 2001, but the timing of the high point varied from state to state. Massachusetts suffered the second steepest job decline in the nation and continued stagnation in employment, losing more than 6 percent of its jobs from peak employment levels, which had still not been recaptured as of May 2005. Connecticut, meanwhile, remained nearly 2 percentage points below its July 2000 peak employment, having experiencing the fifth sharpest job loss in the country. Both New Hampshire and Rhode Island suffered sharp employment declines. Rhode Island’s job recovery—2.7 percent from peak to May 2005—was three times greater than the U.S. average and, in percentage terms, New England’s most impressive. These small variations cannot divert attention from the long-term challenges of limited regional employment growth, especially as each state’s future economic prospects are linked.

### Educational Leadership

Maintaining New England’s mature industries and nurturing its newer knowledge-based industries requires a highly educated workforce. Attracting and retaining the quantity and quality of workers to sustain a competitive workforce is a particular challenge for every New England state. By one measure—the percentage of high school students who go on to college—the New England states do relatively well. Massachusetts, Rhode Island and Connecticut ranked fourth, eight and 10th, respectively, by this measure in 2004, according to the National Center for Policy and Higher Education.

### Employment Change, Jan. 1990—May 2005

<table>
<thead>
<tr>
<th></th>
<th>% Change</th>
<th>U.S. Rank</th>
<th>Decline from Peak Employment to Lowest Level (%)</th>
<th>U.S. Rank</th>
<th>Change from Peak Employment to May 2005 (%)</th>
<th>U.S. Rank</th>
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</thead>
<tbody>
<tr>
<td><strong>United States</strong></td>
<td>22.2%</td>
<td>22</td>
<td>-2.1%</td>
<td>46</td>
<td>0.6%</td>
<td>50</td>
</tr>
<tr>
<td><strong>Connecticut</strong></td>
<td>1.2%</td>
<td>50</td>
<td>-4.6%</td>
<td>46</td>
<td>-1.8%</td>
<td>41</td>
</tr>
<tr>
<td><strong>Maine</strong></td>
<td>13.2%</td>
<td>41</td>
<td>-1.1%</td>
<td>9</td>
<td>1.3%</td>
<td>19</td>
</tr>
<tr>
<td><strong>Massachusetts</strong></td>
<td>5.2%</td>
<td>48</td>
<td>-6.1%</td>
<td>49</td>
<td>-5.1%</td>
<td>49</td>
</tr>
<tr>
<td><strong>New Hampshire</strong></td>
<td>22.9%</td>
<td>29</td>
<td>-3.2%</td>
<td>34</td>
<td>0.9%</td>
<td>24</td>
</tr>
<tr>
<td><strong>Rhode Island</strong></td>
<td>7.9%</td>
<td>47</td>
<td>-3.4%</td>
<td>36</td>
<td>2.7%</td>
<td>14</td>
</tr>
<tr>
<td><strong>Vermont</strong></td>
<td>18.0%</td>
<td>38</td>
<td>-2.4%</td>
<td>25</td>
<td>1.4%</td>
<td>18</td>
</tr>
</tbody>
</table>

Source: Bureau of Labor Statistics

### 1955

The New England Board of Higher Education is established as the executive arm of the New England Higher Education Compact. Boston University Chancellor Daniel Marsh becomes the first chair.

Nearly 190 New England colleges and universities—more than half of them four-year colleges—enroll approximately 180,000 students. U.S. enrollment is estimated at 2,653,000.

U.S. Supreme Court orders “all deliberate speed” in the integration of public schools.

### 1956

Massachusetts Higher Education Assistance Corp., later renamed American Student Assistance, is chartered as a private, nonprofit organization to administer student loans.

### 1957


NEBHE establishes the New England Regional Student Program, enabling New England students to pay the...
New Hampshire ranked 13th; Maine, 16th; and Vermont, 39th.

But while New England’s private colleges and universities are considered among the best in the nation, the region’s public institutions have experienced relatively low public support.

Public investment in higher education has increased considerably over the past five years in every state, except Massachusetts. Nonetheless, every state but Connecticut remains well below the U.S. median in state spending per capita on higher education and all are substantially below the national average for appropriations relative to income.

Housing Affordability

Another compelling challenge for New England is housing affordability. The challenge no longer applies only to low- and moderate-income families. Now we face the task of meeting the housing needs of middle- and higher-income workers as well. In fewer and fewer New England communities does a person with median household income qualify for the mortgage on a home at the median sales price. While we are lulled into complacency by the lowest mortgage rates in years, New England’s housing market, which suffered significant dislocation and significant price declines during the recession of the early ’90s, may be heading for the abyss once again. Housing prices may deflate as interest rates creep back up, but we have still failed to create an adequate supply of housing that would establish long-term price stabilization. This means that New England hospitals, colleges and universities, tech firms and other employers seeking high-skilled workers may not be able to attract the talent they need to stay effective and competitive.

Housing costs are influenced by local phenomena, but powerful regional patterns come into play as well. Most recently, the Pacific region has experienced the nation’s highest rate of housing price appreciation, while New England has moved closer to the U.S. average. But earlier housing booms established a high base price in New England. Smaller percentage increases on a higher base price still generate larger dollar-value increases. Indeed, the cost of New England single-family homes

<table>
<thead>
<tr>
<th>State</th>
<th>Fiscal 2005 Appropriations</th>
<th>Appropriations per $1,000 in Personal Income</th>
<th>Appropriations per Capita</th>
<th>5-yr % Change (Fiscal 00 to Fiscal 05)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connecticut</td>
<td>$768,999,000</td>
<td>4.86</td>
<td>219.49</td>
<td>11%</td>
</tr>
<tr>
<td>Maine</td>
<td>$239,662,000</td>
<td>6.07</td>
<td>181.94</td>
<td>13%</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>$880,555,000</td>
<td>3.34</td>
<td>137.23</td>
<td>-15%</td>
</tr>
<tr>
<td>New Hampshire</td>
<td>$115,258,000</td>
<td>4.36</td>
<td>88.69</td>
<td>20%</td>
</tr>
<tr>
<td>Rhode Island</td>
<td>$174,255,000</td>
<td>4.89</td>
<td>161.25</td>
<td>15%</td>
</tr>
<tr>
<td>Vermont</td>
<td>$79,023,000</td>
<td>4.01</td>
<td>127.17</td>
<td>25%</td>
</tr>
</tbody>
</table>

Source: Illinois State University Center for the Study of Higher Education Policy

Convinced that computers have tremendous commercial potential, Kenneth H. Olsen leaves MIT to form Digital Equipment Corp.

Soviet Union launches Sputnik 1 and Sputnik 2, the first man-made satellites, setting off a superpower race for scientific and technological superiority. United States launches Explorer I a year later.

Lowell, Mass. native Jack Kerouac publishes On the Road.

1958 Route 128 is completed as the first circumferential highway around a major U.S. city; the original stretch from Wellesley to Lynnfield, Mass., is already dotted with high-tech companies.

President Eisenhower signs National Defense Education Act, authorizing grants to colleges to provide low-interest, long-term loans for college students and fellowships for graduate students.

Following the recommendations of a panel of Massachusetts legislators and higher education leaders, Gov. Foster Furcolo proposes the adoption of a statewide system of community colleges. At the time, Holyoke Junior College and Newton Junior
has grown nearly fivefold since 1980. The next highest was the Pacific region with a fourfold increase.

Within New England, the trend has varied widely from a nearly sixfold appreciation in Massachusetts to a nearly threefold increase in Vermont since 1980. During the past year, Massachusetts had the region’s lowest rate of increase—a rate below the national average for the first time in nearly a decade.

Fiscal Disparity

New England’s general prosperity through the 1990s tended to mask a significant fault line—persistence poverty. While the region posts per-capita incomes close to or higher than the U.S. average, levels of economic security in different parts of the six states have grown increasingly inequitable over the past 20 years.

In Connecticut, suburban Fairfield County’s per-capita income was 20 percent higher than primarily urban Hartford County’s in 1970. By 2000, Fairfield’s was 57 percent higher. In Maine, Cumberland County’s per-capita income was 39 percent higher than Aroostook County’s in 1970. By 2000, income in the southern Maine county that includes the thriving city of Portland was 53 percent higher than Aroostook’s in the rural north.

Moreover, the New England counties with high incomes also have high cost of living. As a consequence, we don’t really know how well people are doing even in Fairfield or Cumberland counties. In any case, the trend toward greater fiscal disparity doesn’t appear to be waning, placing greater stress on New Englanders with lower incomes.

Many observers have concluded that there are really two New Englands, one northern and rural and another southern and urban. This perception threatens the cohesion we need to meet current and future challenges. True, there is a pattern of density that cuts across five of the six states, from southern Connecticut to southern Maine. From a different perspective, however, this is the “sprawl line” that has galvanized activists in each state to create broad smart growth coalitions to keep our region’s best asset—our quality of life—from slipping through our fingers. Northern forests and southern port cities share a common destiny. Manufacturing centers have both a rural and an urban heritage. Seacoasts and ski slopes give this region a place-based diversity in close geographic proximity that is more rich and interconnected than any other region in the country. We need our farms and our industries—old, new and still in the incubators—to foster new integrative strategies that will create the food, the fuel, the pharmaceuticals and the creative strength to compete in the 21st century.

### Change in Home Prices by Region (through First Quarter 2005)

<table>
<thead>
<tr>
<th>Rank</th>
<th>1-Year</th>
<th>5-Year</th>
<th>Since 1980</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pacific</td>
<td>1st</td>
<td>21%</td>
<td>83%</td>
</tr>
<tr>
<td>South Atlantic</td>
<td>2nd</td>
<td>15%</td>
<td>55%</td>
</tr>
<tr>
<td>Middle Atlantic</td>
<td>3rd</td>
<td>14%</td>
<td>64%</td>
</tr>
<tr>
<td>Mountain</td>
<td>4th</td>
<td>13%</td>
<td>40%</td>
</tr>
<tr>
<td>New England</td>
<td>5th</td>
<td>13%</td>
<td>70%</td>
</tr>
<tr>
<td>West North Central</td>
<td>6th</td>
<td>7%</td>
<td>38%</td>
</tr>
<tr>
<td>East North Central</td>
<td>7th</td>
<td>7%</td>
<td>29%</td>
</tr>
<tr>
<td>East South Central</td>
<td>8th</td>
<td>5%</td>
<td>23%</td>
</tr>
<tr>
<td>West South Central</td>
<td>9th</td>
<td>5%</td>
<td>25%</td>
</tr>
<tr>
<td>United States</td>
<td>10th</td>
<td>13%</td>
<td>51%</td>
</tr>
</tbody>
</table>

* Rankings based on annual percentage change. ** U.S. figures based on weighted division average. Source: Office of Federal Housing Enterprise Oversight.

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Credit: Dwight D. Eisenhower Library.

College—New England’s only two-year public colleges—enroll about 900 students.

MIT spins off MITRE Corp., an independent nonprofit company, to develop air defense systems and pursue other engineering projects for the military. Fifteen years later, MIT would spin off another key research company—the Charles Stark Draper Laboratory.

Federal government establishes Advanced Research Projects Agency to oversee military space research.

1959 NERHE receives $70,500 from the Carnegie Corp. to study supply and quality of college teachers in New England.

1960 John F. Kennedy of Massachusetts is elected president of the United States.

College graduates account for 8 percent of U.S. population.

In the face of increased demand for higher education, NERHE predicts a shortage of higher education facilities and resources in New England.

NERHE holds conference on college teaching. Among speakers, Professor B.F. Skinner of Harvard discusses new teaching methods that allow students to work at their own pace.
Changing Demographics
New England lost more than 33,500 residents to other states from 1997 to 2001, most of them young workers with the income, skills and freedom to choose wherever they like to live. Meanwhile, the face of New England is increasingly diverse, not just in the urban areas, but even in suburban and rural areas that are still often perceived as unchangingly homogeneous. Black, Hispanic and Asian families represent growing percentages of the population in many communities throughout all six states.

Foreign immigration was a large factor in stabilizing New England’s population throughout the ’90s. In Connecticut, Rhode Island and Massachusetts, new foreign immigration accounted for all population growth, according to research by the Northeastern University Center for Labor Market Studies. Were it not for foreign immigration, New England would have actually lost population due to slower birth rates and outmigration among people in prime family formation years.

Another less visible pattern—internal migration from one New England state to another—also comes into play. Internal Revenue Service data identifying year-to-year changes in the residence of taxpayers from 1997 to 2001 show that some New England states are gaining population from this intraregional migration, while others are losing people. Massachusetts suffered a net loss of almost 46,000 residents during this period, mostly to other New England states. New Hampshire posted a net gain of more than 41,000, again mostly from within New England (and undoubtedly the lion’s share was from Massachusetts). Clearly, New England’s intertwined cross-border economic dynamics are reflected in population movements of relocation and longer commutes.

Political Clout
The framers of the Constitution, many of them New Englanders, balanced power among the states by giving each state two senators. But the population-based House of Representatives is where money bills originate. At the beginning of the 20th century, this worked in New England’s favor. By 1950, however, the shift in populations—and therefore House representation—was well underway. By the beginning of the 21st century, New England’s Southern competitors were approaching a fivefold edge in the House. These trends, as they play out in red/blue alignments and changing seniority patterns in House leadership and committee chairmanships, present New England with political challenges that require concerted regional action.

In recent highway appropriation debates, much has been made about donor states (who send more gas tax to the highway trust fund than they receive) and donee states. But New England is a substantial donor region when all federal funds are considered. More importantly, the three states with the largest economies—Massachusetts, Connecticut and New Hampshire—are all major donor states and are giving increasingly more than they get back from Washington. Even in the period of highest spending on the Big Dig, Massachusetts increased its giving by over 20 cents on the dollar. Only Vermont has been successful in switching its position from donor to donee status.

Where Do We Go From Here?
The six New England states share a common destiny. The New England Initiative at UMass Lowell, established several years ago as a part of the Center for Industrial Competitiveness, has been working with other New England organizations including the New England Council, the New England Board of Higher

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Berkshire Community College is established as the first state-supported community college in Massachusetts.

Rhode Island Legislature votes to establish three public community college campuses.

1961 Connecticut opens state technical institute in Norwalk amid calls for more technical education beyond high school. By 1977, the state would host five technical colleges, which would merge with community colleges in 1992.

University of Vermont President John T. Fey assumes NEBHE chairmanship.

1962 Rachel Carson publishes Silent Spring, heightening awareness of environmental issues.

The stock market collapses.

John W. McCormack, a Democratic congressman from Massachusetts, becomes speaker of the U.S. House of Representatives. He would serve in the post until 1971.

1963 New England governors, state legislators and educators meet to discuss higher education and economic growth at NEBHE Legislative Work Conference in Portsmouth, N.H.

New Hampshire unifies its land-grant university and state colleges under one board of trustees.

Passenger rail service between Boston and Portland, Maine, terminated.

Congress passes Health Professions Educational Assistance Act, funding expanded teaching facilities and loans for students in the health professions. The Higher Education Facilities Act authorizes grants and loans for classrooms, libraries and laboratories in community and technical colleges and other higher education institutions.

Education, the New England Association of Regional Councils, the New England Governors’ Conference, the New England Futures Project, the New England Smart Growth Alliance and many others. One thing continues to emerge from these conversations and analyses—we must work together. With each successive report uncovering new dimensions of the fundamental challenges facing the six New England states, it becomes clearer that the region needs a permanent capacity, built on a framework of political and business leaders, academics and civic partners to monitor trends, analyze policy options, exploit opportunities and address threats to our well-being. We look forward to working with a broad coalition of New Englanders to help make this happen.

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### Adjusted Federal Expenditures Per Dollar of Taxes by State, 1993–2003

<table>
<thead>
<tr>
<th>State</th>
<th>FY 1993</th>
<th>FY 2003</th>
<th>10-Year Change in Spending per Dollar of Tax</th>
<th>U.S. Rank FY 1993</th>
<th>FY 2003</th>
<th>Change in Ranking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connecticut</td>
<td>$0.66</td>
<td>$0.65</td>
<td>($0.01)</td>
<td>49th</td>
<td>48th</td>
<td>-1</td>
</tr>
<tr>
<td>Maine</td>
<td>$1.42</td>
<td>$1.36</td>
<td>($0.06)</td>
<td>6th</td>
<td>16th</td>
<td>10</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>$0.99</td>
<td>$0.78</td>
<td>($0.21)</td>
<td>31st</td>
<td>44th</td>
<td>15</td>
</tr>
<tr>
<td>New Hampshire</td>
<td>$0.65</td>
<td>$0.64</td>
<td>($0.01)</td>
<td>50th</td>
<td>49th</td>
<td>1</td>
</tr>
<tr>
<td>Rhode Island</td>
<td>$1.08</td>
<td>$1.06</td>
<td>($0.02)</td>
<td>25th</td>
<td>28th</td>
<td>3</td>
</tr>
<tr>
<td>Vermont</td>
<td>$0.92</td>
<td>$1.14</td>
<td>$0.22</td>
<td>38th</td>
<td>23rd</td>
<td>-15</td>
</tr>
</tbody>
</table>


A Half Century of New England Higher Education and Economic Development, continued
Almost 50 years ago, a NEBHE newsletter editorialized that “institutions of higher learning must not become devices to reverse our historic trend away from a class society. We should continue to open wider doors of opportunity for students of genuine ability without regard to (family) income.” The Higher Education Act of 1965, with its commitment of federal support to new need-based student aid programs, and subsequent legislation establishing Basic Grants, later renamed Pell Grants, seemed to confirm that aspiration. And indeed, the years following NEBHE’s founding saw an enormous expansion in the number of citizens pursuing higher education.

In recent years, however, that social contract between the government and the larger society to make higher education available without regard to family income, has become increasingly threadbare.

An avalanche of recent articles, books, and media reports document the proposition that the more competitive institutions, whether private colleges or public universities, have become, to quote Mellon Foundation President William G. Bowen, “bastions of privilege” as much as “engines of opportunity.” Over the past 25 years, the more competitive and wealthier institutions have become increasingly populated by the most economically advantaged students.

Public institutions with their more limited resources and lower tuition have become the places of necessity for middle- and lower-income families, if they can afford college at all. Both The Economist and The New York Times have devoted major efforts to an exploration of the role of higher education in hardening class lines in America.

A Century Foundation paper on college admissions and socioeconomic status by economists Anthony Carnevale and Stephen Rose provides some overwhelming statistics: At the 146 most competitive (and richest) colleges in the United States, 74 percent of students come from the top social and economic quartile; only 3 percent come from the bottom quartile; only 10 percent come from families below the median. Half the low-income students who are able to go on to higher education at all do so at community colleges where wealthier students are a rarity. At elite private colleges and universities, despite large commitments to financial aid, very few students even qualify for a Pell Grant because of their family income. At the University of Virginia, fewer than 10 percent of students have Pell Grants, which are generally awarded to students whose family incomes are under $40,000. At the University of Michigan, more students come from homes with family incomes of $200,000 than with family incomes below the national median.
Among those who do go to college, advantaged students have access to far richer resources than poorer students because the institutions they attend are far wealthier; the 10 richest colleges in America, for example, have combined endowments of about $78 billion. A student at an elite private institution may have as much as $75,000 of college resources devoted to his education while only a small fraction of that sum will be available, from tuition and government resources, at a local community college or regional public university.

Moreover, the hardening of class lines in higher education has broader class implications because as the rewards for a college degree from a prestigious institution become ever more valuable in the global economy, it is the already advantaged who reap the largest rewards from higher education. In addition, the quality of a liberal education at all institutions suffers when the economic diversity of the student body disappears (an undergraduate at an elite college in Maine wrote recently about what it was like to be in a college where few students even knew anyone who was poor).

The growing stratification in higher education is the result of a variety of new factors that are reinforcing one another.

First, because of growing income disparity, tuition has exploded as a percentage of family income for middle- and especially lower-income families over the past 30 years, but has actually decreased slightly for wealthier families. And the widening gulf between rich and poor is reflected in disparities in public schools, in neighborhoods, in school “readiness” and many other dimensions of everyday life that affect one’s course toward higher education.

Second, for hundreds of colleges and universities, the quest for success in a very competitive market has led to an arms race that diverts resources from financial aid to high-priced amenities such as fancy dormitories and glitzy campus centers in order to attract sought-after students.

In addition, state and federal governments have retreated from support of needy students and the institutions they attend. Financial aid programs cover less and less of college costs. In fact, Pell Grants covered 80 percent of four-year college costs 20 years ago, but just 40 percent today. Individual states—once the primary source of revenue for state colleges and universities—provide relatively less each year for higher education as their budgets are squeezed by rapidly escalating Medicaid, criminal justice and K-12 costs. Students at the less prestigious institutions are hurt most because their institutions, with their smaller endowments and less sophisticated fundraising operations, are most dependent on state aid and tuition revenue.

Also, both public and private institutions have increasingly adopted market strategies that favor wealthier students. Across the country, colleges and public systems are replacing need-based student aid dollars with “merit-based,” aid which helps institutions lure more “desirable” (usually wealthier) applicants who are able to pay at least some of the freight. Others rely on the euphemistic tuition “discounting,” which offers some students admission at below the advertised price for a variety of reasons other than financial need. Many elite institutions favor the “savvy” applicant through early admissions policies, which less well-counseled applicants are less likely to be aware of. Attention to “resume-building” also gives advantage to wealthy students who may be more familiar with ways to enhance their applications. And college recruitment strategies often target wealthier school districts.

Lastly, two powerful players in the marketing and admissions business play roles that tend to harden class
lines among institutions. The annual college ratings edition of U.S. News & World Report plays an enormous role in the marketing of institutions and college choice. Most of the criteria used in the rating system favor rich institutions and the recruitment of wealthier students. One of the criteria, for example, awards colleges points based on their budget per student. This provides a powerful incentive not to lower tuition charges. Another measure uses SAT scores which are reliably correlated with family income and parents’ experience with college; the most heavily weighted criteria focuses on “reputation” which tends to give momentum to the most established and elite institutions.

The SAT itself is an instrument of stratification in higher education, a measuring stick that generally correlates with family income. Although most competitive colleges use a variety of tools in selecting students for admission, the average or range of SAT scores at an institution plays a disproportionate role in admissions decision-making. Further, wealthier families and schools take extra advantage of test-preparation programs; the new writing sample may, in fact, heighten that advantage. There is also a long history of studies that suggest a cultural bias inherent in the SAT test itself.

If the causes and culprits of the increasing stratification of higher education between the rich and the poor are many and complex, are there any steps we might individually and collectively take? Certainly reducing the gaps between rich and poor overall in the United States would be a most effective strategy for reinvigorating opportunity in education and many other arenas. But there are other, less ambitious, possibilities as well.

For starters, read the latest book by Bowen and his colleagues, titled, Equity and Education in American Higher Education. I cannot do justice here to the range and thoughtfulness of their analysis, but several recommendations stand out. First, the elite institutions, who have long been “need blind” should now be “need conscious”—in short, wealthy institutions who can afford more financial aid should provide a “thumb on the scale” to enroll poorer students. Highly qualified lower-income students, even those with high SAT scores, are now being rejected by elite institutions who are unaware that they have qualified lower-income students in their applicant pools.

Second, admission to college on the basis of “legacy” and athletic prowess should be seriously questioned. It is particularly difficult to rationalize preferential treatment for children of alumni at wealthy institutions that claim to exemplify the idea of a meritocracy.

Third, much more aggressive steps should be taken to target less advantaged school systems in an effort to identify talented students at a much earlier stage in their education and provide the support to help them be successful. A recent report from the Lumina Foundation on the efforts of 15 colleges and universities to reach out and provide programs for low-income students provides some good models for aiding less economically advantaged students.

Fourth, the time has come to re-examine the SAT as an admissions requirement. Bates and Bowdoin colleges in Maine have not required applicants to submit SAT scores for many years. The two colleges have found that those applicants who did not supply SAT scores (and scored significantly lower on the tests) ended up with almost identical grades in college and graduation rates as those who did submit scores. But the major effect of dropping the SAT requirement has been a much larger and more diverse applicant pool.

Fifth, it is time for college leaders, who privately deride the U.S. News rating system, to stop cooperating with this deeply flawed system or encourage...
The Council of Presidents of the six public New England Land-Grant Universities is founded to exchange information on academic affairs, government relations, management issues and intercollegiate athletics.

Maine Senate Majority Leader Bennett D. Katz assumes NEBHE chairmanship.

1974 NEBHE receives support from the U.S. Public Health Service to study graduate and continuing education in nursing, as well as the region’s manpower needs in the fields of optometry, osteopathy and podiatry.

NEBHE links nearly 70 academic and public libraries through the New England Library Information Network, and provides on-line bibliographic searches through its Northeast Academic Science Information Center.

Boston School Committee rejects court-ordered busing plan for desegregation, leading to two years of racial violence in the region’s largest city.

Economist Rudolph Hardy proposes creation of a New England Assembly with the power to conduct regionwide planning.

Congress establishes National Center for Education Statistics.

A Half Century of New England Higher Education and Economic Development, continued

The popular magazine is beginning to feel some heat about this. Its 2006 issue for the first time includes a ranking of colleges and universities according to their “economic diversity,” by which it means the percentage of undergraduates who receive federal Pell Grants for low-income students. At Alabama A&M, for example, the figure is 83 percent. At Princeton, which tied for first in the magazine’s overall rankings of “America’s Best Colleges” this year, the figure is 7 percent. In other words, how institutions perform on this measure still has no bearing on their overall rankings that are so important to prospective students and various benefactors. U.S. News might be encouraged to adopt a rating system that makes student diversity—by family income, race and ethnicity, even a student’s age and employment status—part of the methodology. Further, important efforts are underway to develop more thoughtful ratings systems, based less on “inputs” and more on what a college does for a student. University leadership and the media could support and encourage these alternative rating systems.

Sixth, and more important, is the general plight of the public higher education systems, where most of America’s students go to college. A number of public universities now receive less than 10 percent of their revenue from their state government. They should be congratulated for their success in attracting other resources. But most students attend public institutions whose quality and capacity are based primarily on state support and escalating tuition charges. As public support has eroded, the claim to real access has become increasingly empty.

Finally, financial aid on the basis of financial need must recapture its preeminence in the system of expanding higher education opportunity. For public institutions and state governments to divert resources to so-called merit awards, for private institutions to target key resources to tuition discounting as a marketing tool, and for the elite colleges to provide financial aid to the wealthy as a recruitment tool, is to hasten the course to a more rigid class system in higher education. In the end, the idea of equal opportunity will be gravely weakened, and so will the economy and society that depend upon it.

As higher education analyst and Pell Senior Scholar Thomas G. Mortenson editorialized recently: “Since 1973, the only earned path to the American middle class goes through higher education. This makes higher education the gatekeeper to the middle class in the United States. This makes federal, state and institutional decisions more important to America’s future than they have ever been.”

Robert L. Woodbury is the former chancellor of the University of Maine System and former director of the John W. McCormack Institute for Public Affairs at the University of Massachusetts Boston. He was NEBHE chair from 1990 to 1992.
Coming Together
How a Half Century of Segregation and Desegregation Continues to Shape New England’s Future

BLENDA J. WILSON

If you were an African-American student in a large Northern city 50 years ago, your public school, very likely, would have been segregated—even in New England. Only one year earlier, in Brown v. Board of Education of Topeka, Kansas, the U.S. Supreme Court had ruled that legally sanctioned school segregation violated the 14th Amendment to the Constitution.

Following the Supreme Court decision, Massachusetts took legislative action, recognizing that segregation in housing had restricted certain racial and ethnic groups, including African-Americans and Latinos, to neighborhoods whose schools were inferior to schools in predominately white communities. In 1965, Massachusetts Gov. John A. Volpe proposed and the state Legislature approved the Racial Imbalance Act, which prohibited racial imbalance and discouraged schools from having enrollments that are more than 50 percent minority. The state Board of Education required written desegregation plans from school committees in segregated cities, including Boston, Springfield and New Bedford.

Sadly, the Racial Imbalance Law ran into staunch resistance in many parts of the state. The Boston School Committee immediately challenged the law in U.S. District Court, but the court ruled against the school board. Nevertheless, decades of political activism in opposition to the law took extreme forms, including violent protest and boycotts that will forever stain Boston’s reputation on matters of race.

In 1972, a group of African-American parents in Boston filed a class action suit charging that the city’s public schools were intentionally segregated. Two years later, U.S. District Court Judge W. Arthur Garrity ordered the School Committee to produce and implement a racially balanced student assignment plan as a temporary remedy and to create a permanent plan.

Over the next 15 years of active court involvement, the judge issued a series of remedial orders on a range of issues, including assigning students to schools, busing students to schools beyond walking distance, closing and opening facilities and recruiting and assigning faculty and staff.

Boston was not alone in refusing to comply with the law. The Springfield schools were not fully desegregated until after the Massachusetts Board of Higher Education filed four separate lawsuits against that city’s School Committee.

One of the striking successes of Massachusetts legislative action was the creation of the Metropolitan Council for Educational Opportunity (METCO Inc.). This state-funded, voluntary education desegregation program to promote delivery of health, education and public service information via telecommunications.

U.S. college enrollment stands at 11,012,137.

1977 First wave of New England colleges and universities begin divesting endowment funds from companies that do business in South Africa. Within a decade, more than 30 New England institutions would have divested more than $200 million. Most would reverse the policy with the dismantling of apartheid in 1991.

Biogen is founded in Massachusetts. By 1990, the state would host more than 100 biotechnology companies.


1978 In response to budgetary concerns, a 25 percent tuition surcharge on RSP students is initiated.

Caucus of New England State Legislatures is established.

John C. Hoy, former vice chancellor for university and student affairs at the University of California, Irvine, and Wesleyan University admissions dean, becomes NERHE president and CEO—a post he would hold for 23 years until his retirement.

Price of postage stamp rises to 15 cents.
program helped eliminate racial imbalance by enabling children from Boston, and later from Springfield, to attend participating suburban public schools. METCO has been a key player in the regional battle for equal educational opportunity. Today, more than 3,000 METCO students attend schools in one of 38 participating districts, including Braintree, Brookline, Cohasset, Framingham, Hampden, Lexington, Longmeadow, Newton and Reading. Since the organization was established in 1965, nearly nine out of 10 METCO graduates have gone on to college.

During the era of desegregation, the number of minority students who graduated from high school increased sharply and racial test score gaps narrowed. Despite the evidence of METCO and other successful educational interventions that quality education can enable all students to achieve at high levels, however, the promise of equal education in New England remains elusive. Even today, residential housing patterns in many of New England’s low-income, multicultural cities mimic earlier patterns of segregation and produce inferior schools and unequal education for poor, immigrant and minority children.

Because immigrant and minority children represent the fastest growing segment of the population in New England, redressing modern-day segregation is particularly challenging. A good example may be seen in Hartford, Conn., where the student population is 95 percent minority. The Connecticut Supreme Court found the state of Connecticut in violation of a mandate to reduce racial, ethnic and economic segregation in Hartford regional schools. To achieve diversity, Hartford plans to develop inter-district magnet schools to bring together students from the city and from the suburbs. Hartford’s goal is to significantly expand the number of African-American and Latino students in desegregated educational settings within four years.

Legal challenges to the intent of the law have also undermined educational advances on behalf of minority students. In 1996, for example, two lawsuits were filed by Michael C. McLaughlin, a white Boston attorney whose daughter had been denied admission to the prestigious Boston Latin School. At the time, Boston’s “exam schools” reserved 35 percent of the student slots for African-American and Latino students. McLaughlin’s claim was that his daughter’s grades and entrance exam scores were higher than those of many minority candidates who were granted admission. The lawsuit was dismissed when the schools agreed to reserve half the seats in the district’s three exam schools for students with the highest scores and to fill the remaining slots through a system that permitted consideration of test scores and race. In a later case, the U.S. Court of Appeals ruled that compromise was unconstitutional. As a result, fewer African-American and Hispanic students attend Boston Latin School and Boston Latin Academy today than during the years of court-ordered school desegregation.

So how far have we come? Neither the country at large nor New England has succeeded in eliminating segregation, whatever its cause. The familiar phenomenon of “white flight,” where white families migrate out of the region’s cities or send their children to parochial or private schools, has created “majority minority” student populations in many urban public schools. Massachusetts, Connecticut and Rhode Island now rank among the U.S. states in which white exposure to blacks is the lowest, and Latino segregation continues to increase in every region of the country. So, if you are an African-American or Latino student in a large

A Half Century of New England Higher Education and Economic Development, continued

1979 NEBHE creates Commission on Higher Education and the Economy of New England, comprised of bank executives, college presidents, labor officials, professors, publishers and business leaders. U.S. Department of Education is established as cabinet-level agency, with Shirley M. Hufstedler as first secretary.

For the first time, women outnumber men on U.S. college campuses.

Number of high school graduates begins to decline.

1980 High-technology executives in Massachusetts help push through Proposition 2/3, a sweeping referendum capping property taxes.

Ronald Reagan is elected president, ushering in era of administration calls for cuts in federal spending on higher education and scientific research.


A NEBHE survey finds that fewer than half of New England leaders of government, higher education, business and labor view higher education as “above average” or “outstanding” in meeting the labor force needs of the region’s industries.

Reagan administration cuts funding of New England
Northern city today, or even in parts of New England, there is still a good chance that your school is racially unbalanced.

Moreover, the Harvard Civil Rights Project, in a recent study titled, A Multiracial Society with Segregated Schools: Are We Losing the Dream?, found that the progress in reducing educational disparities that had been achieved during the era of desegregation has been eroding in the 1990s.

The good news, however, is that, despite continued housing segregation and stubborn resistance to compensatory strategies, schools have made progress over the past 50 years in reducing educational inequities based on race. According to the National Assessment of Educational Progress (NAEP), performance gaps between white and minority students in reading and math have closed to the narrowest point in 30 years. NAEP assessments in 4th grade writing also show a narrowing in the black-white gap in average scores. African-American and Latino students have gained at an even faster rate than white students on these measures, according to a recent report of the Center for Education Policy. And while students of color still account for only 20 percent of enrollments on the region’s college campuses, they are making progress. Between 1993 and 2003, African-American enrollment increased by 31 percent, Latino enrollment by 51 percent and Native American enrollment by 21 percent. Progress is slow, but encouraging.

Brown v. Board of Education set in motion a half century of fits and starts toward equal educational opportunity for citizens of color. The federal government played an important role by providing grants and loan guarantees to make college affordable to students from low-income families and sponsoring college access programs such as Upward Bound, TRIO and GEAR UP to increase the college readiness of students from underperforming schools. Similarly, state support of public colleges and universities was designed to enable all students who were capable of pursuing post-secondary education, regardless of income, to enroll in college—opening the doors of opportunity to historically disadvantaged groups.

The major policy advances of this new century contain a commitment to educate all children for a competitive world. In addition to historically underrepresented populations—African-Americans, Latinos, Native Americans—New England is experiencing a large influx of immigrants from all over the world, including large numbers of school-age children from Brazil, Portugal, El Salvador, the Dominican Republic and India. While these groups may live in relatively homogeneous neighborhoods more as a result of choice than discrimination, the educational challenge remains the same as the struggle of the past 50 years—to provide a high-quality education for all.

The rapid increase of immigrant populations in New England should give new urgency to the region’s commitment to education reform and enhancing achievement of underserved groups. Adlai Stevenson once said, “The most American thing about America is the free common school system.” We must hold those schools accountable not only for advancing educational equity, but for sustaining an inclusive democracy.

Blenda J. Wilson is president and chief operating officer of the Nellie Mae Education Foundation in Quincy, Mass.
In Search of New NEBHEs

NEAL PEIRCE AND CURTIS JOHNSON

NEBHE at 50—survivor of several economic ups and downs and the comings and goings of many a political regime—stands as the region’s best evidence that connecting New England assets pays off.

The next 50 years will be tougher. There is no precedent for what New England faces if it hopes to add new chapters to its success story. The region has to flat-out commit to getting every willing young person prepared with an appropriate college education. This will require not only money, but also transformative institutional changes.

What New England also needs—and soon—are new “NEBHEs” to address different problems. On the biggest problems, the region’s famous fondness for intense localism will fast prove to be an unaffordable sentimentality.

- Somewhere in western Massachusetts an entrepreneur operates a small biodiesel plant, processing local crops into fuel for nearby customers. At the University of New Hampshire, physics professors refine the technology for biofuels. In Storrs, Conn., economists publish a study showing how a push for renewable fuels could improve the New England economy. Where’s the energy-related “NEBHE” to bring these inventive New Englanders together, to play the convener role, to forge collaborations that reduce the region’s energy vulnerability?

- Maine figured out how to give I-95-weary tourists a rail alternative to get to its seductive coastal hideaways, but finds resources hard to come by. Boston, pockets picked bare by the Big Dig, debates whether to build a rail connection between North and South stations or build the circumferential ring through the suburbs. Connecticut spends millions on a freeway interchange to a road that’s not going to be built, while Bradley airport lacks vital rail connections. Where is the “NEBHE” to make sense of this hash, to ask and answer the questions about New England’s obvious infrastructure needs for this century?

- If broadband at ever increasing speeds and convenience is the opportunity ticket to breathe new life into the remotest reaches of northern New England, where’s the leadership structure to gather the cash and clout this proposition requires?

- Maine suggests it can fill the health care coverage gap with its Dirigo program. All six governors sound the alarm over rising publicly paid health costs. But there’s no arrangement for blending the region’s wisdom and resources, devising solutions on a true regional scale.

Visions: Reflections on the Past, Predictions of the Future

To mark NEBHE’s 50th anniversary year, CONNECTION invited a small group of visionary commentators to submit short “statements” on the future of New England’s economic and civic development, tomorrow’s technologies and the changing shape of higher education …
Some question whether, now that the Red Sox have won the World Series, there’s any need for a New England. As outside observers—and admirers of New England—we’d suggest there’s more need than ever. But without more “NEBHEs” pushing on multiple fronts, don’t expect much progress.

**Neal Peirce** is chairman of the Citistates Group and a syndicated columnist with the Washington Post Writers Group. He has written several books on U.S. states and regions including The New England States: People, Politics and Power in the Six New England States. **Curtis Johnson** is president of the Citistates Group and former chair of the Metropolitan Council of Minneapolis-St. Paul.

**Demography Is Still Destiny**

**PETER FRANCESE**

Few things focus the mind as well as increasing awareness of impending doom. If I were working at one of New England’s colleges or universities, the focus of my mind would be sharpening on a few rapidly developing trends that bode ill for my institution’s future.

**Item One:** Most towns in New England have development policies that discourage parents with school-age children from moving there because voters, most of whom now have no kids at home, don’t want to raise their property taxes to pay for educating someone else’s children.

**Item Two:** Many towns in New England are actively encouraging older people to stay here or move here by heavily favoring, and sometimes mandating, housing that is legally restricted to people ages 55 or older. The U.S. Fair Housing Act of 1968 forbids virtually any type of discrimination in housing, but not this; it’s OK to exclude families with kids.

Reagan defense buildup reaches peak.

Tuition and mandatory fees at New England’s private four-year colleges average $7,739, compared with $5,793 nationally. Tuition and mandatory fees at the region’s public four-year colleges average $1,590, compared with $1,137 nationally.

1986 NEBHE begins publishing quarterly journal, titled **Connection: New England’s Journal of Higher Education and Economic Development.** In 2001, the journal would adopt its current name, **Connection: The Journal of the New England Board of Higher Education.**

1987 NEBHE asks leaders of business, government and education to peer into New England’s future and identify issues that will be critical to the region’s prosperity. The result is the **Future of New England Leadership Survey Report.**

Item Three: Outmigration of young adults from New England is high and likely to grow. Most of the college-bound high school seniors here seem to prefer to enroll somewhere other than in New England. People under age 18 can vote only with their feet, so they’re sending us voters a pretty clear message: “You don’t really want us here anyway, so we’ll just go to college someplace else, and don’t be surprised if we stay there after graduation.”

New England has become, demographically speaking, the oldest region in the country. All six New England states rank among the 12 oldest in the nation. Maine just edged out West Virginia to have the distinction of the oldest population on average in the United States.

This region’s population is aging so fast that one third of New England’s counties have had more deaths than births since 2000. Aging also means that because such a high percentage of women in New England are out of the childbearing age range, the number of children will decline. The U.S. Census Bureau projects that 10 years from now, there will be about 100,000 fewer 14- to 17-year-olds in New England.

Jared Diamond, in his book **Collapse,** chillingly describes past societies that perished because they refused to recognize how their actions, so deeply rooted in their culture, were so self-destructive. Here in New England, the culture that allows small towns (especially college towns!) to stay small by prohibiting the construction of any reasonably priced housing, except for senior citizens, will mean a grim future for our economy and for higher education.

Not only will New England’s colleges find it harder to recruit students, they will find it harder and more expensive to recruit workers. Going to a private four-year college in New England already costs 24 percent more than in the nation as a whole, and in-state yearly charges for public four-year colleges are at least 15 percent more. Rising labor costs will mean pricing our colleges out of
reach for more and more students who can just go elsewhere for less.

What can be done? For starters, everyone who works for a college or university or cares about New England’s future must get involved with their local government to stop permitting only age-restricted housing and start doing whatever it takes to get some affordable workforce housing. This may mean changing school funding formulas so the cost of education does not fall so heavily on small school districts.

But just as much as the region needs more housing, it also needs much better public schools. Whatever the region’s colleges and universities are doing to help raise the quality of primary and secondary schools, it clearly hasn’t been enough. One-quarter of New England’s public high school students still don’t graduate and of those that do, only about half go on to higher education.

Second, the region needs a large, well-funded and long-range marketing program to change the image of New England in the rest of the nation. We’re dangerously close to becoming just a big theme park. As someone suggested at a recent meeting I attended in South Carolina: “New England’s a fine place to vacation, but you wouldn’t want to live there or send your kid to college there.”

The most important part of any marketing program is the upfront research that will reveal, not only what we think of our region, but what people in the rest of the nation, particularly parents of college-age kids, think of New England. The research should include exit interviews with some of the young people who have chosen to leave the region.

Third, the historical ability of New England colleges and universities to counter the region’s deteriorating demography by attracting talent from across the nation and around the world is seriously in question. This region’s colleges are pricing themselves out of the market for New England students who are on the fence about going to college at all. And they are discouraging students from elsewhere who may now find a better price-to-value relationship nearer to home. Colleges across New England need to rethink their value proposition. What exactly is the primary benefit of a New England higher education? And how should New England colleges market the unique benefits they offer?

New England is the smallest, oldest and nearly the slowest-growing region in the nation. But it also has the nation’s highest level of educational attainment among adults age 25 and older and the nation’s highest household income. It’s time we used some of that money and expertise to craft a better future for ourselves than these ominous trends would suggest.

Peter Francese is director of demographic forecasts for the New England Economic Partnership and founder of American Demographics magazine.

New England’s Going to Do It Again

JAMES T. BRETT

New England is a region at a turning point in its history—again. As we reinvent ourselves this time, the region faces some particular challenges.

A study conducted this year for The New England Council by the global management company A.T. Kearney points to some troubling trends: an aging workforce; outmigration of young, educated people; aging and insufficient infrastructure moving goods and people; and lack of aggressive marketing to attract businesses and skilled workers to the region. Added to these challenges are an overall high cost of doing business and high cost of living, including some of the fastest-rising housing prices of any region in the county.

It’s not difficult to imagine why more affordable regions...
are now outspcing New England in job creation and doing
a better job at attracting growth companies and people.

Despite these trends, New England remains a global
leader on many fronts, particularly in the area of tech-
nological advancement. We are known as a world
leader in health care, and thousands come to the region
to take advantage of the best in higher education.

But the A.T. Kearney study and other published
analyses point to weaknesses that threaten our leader-
ship in these areas as well. New England cannot afford
to be complacent. And it clearly is not a productive
strategy to undernourish or underinvest in the critical
resources of our economy, such as higher education.

The myriad reports that cite the forces working
against New England's growth often return to educa-
tion as a source of answers and strategy. Our lowest-
in-the-nation public investment in higher education is
an example of the type of irony that may ultimately
undermine our efforts.

Even more than financial support, collaboration
between higher education and the business community
will play a critical role in the future success of the New
England economy.

New England has stood at this crossroad many
times before and successfully transformed its economy
to keep it vibrant. From the early days of agriculture,
we moved to excel in an industrialized society; domi-
nance in shoes and textiles turned to pioneering in
software and defense. Today, technology and life sci-
ences lead the way. We may not know what the future
holds, but we have a history of charting the right
course for the future, and there is every reason to
believe we will do it again.

James T. Brett is president and CEO of The New
England Council.

The Human Development Gap
JAMES P. COMER, M.D.

The past half century has witnessed the greatest scientif-
ic and technological change in the history of the world.
A significant consequence is that living wage employ-
ment, desirable family and community functioning, and
societal well-being now require a very broad base of
well-educated people. But while higher education has
played a central role in promoting scientific and social
progress, it also has helped create a gap between those
who are developed well enough to function effectively
and those who are not.

Academic learning and child development are inex-
tricably linked. And good social, psycho-emotional and
moral-ethical development is as important as brain
development and physical, linguistic and cognitive-
intellectual development. By focusing primarily on
improving academic achievement gains rather than
overall development, a human development gap has
been created and is almost certain to widen.

Underdeveloped young people are less likely to per-
form well in school and later as family and community
members and responsible citizens. They are more likely
to display socially and financially high-cost problem
behaviors—just at the time we face significant economic
and social challenges from other nations.

There are more than 2 million American men in jail,
contributing significantly to school, family and commu-
nity problems. Mental and physical health problems,
unemployment and welfare dependency, domestic
violence, child abuse and neglect are all influenced by
human underdevelopment. Our failure to prepare our
young people for responsible civic participation is a
major reason they don’t vote or volunteer as adults.

It is irresponsible to argue that such development

1989 The “miracle” is over. New England
unemployment rate rises; personal income growth
falls. Wang, Digital, Data General and Prime
Computer announce major layoffs.

NEBHE issues Equity and Pluralism: Full Participation
of Blacks and Hispanics in New England Higher
Education. The benchmark report of NEBHE’s Task
Force on Black and Hispanic Student Enrollment and
Retention in New England offers 20 major recom-
mendations to ensure greater participation and
success among blacks and Hispanics in New England
higher education and the educated workforce.

Rhode Island Children’s Crusade launched, guaran-
teeing full college scholarships to economically
disadvantaged Ocean State students.

Through its Regional Project on the Global Economy
and Higher Education in New England, NEBHE briefs
state legislators in all six state capitals on the inter-
nationalization of higher education and the economy.

NEBHE issues Law and the Information Society:
Observations, Thoughts and Conclusions about Legal
Education, Law Practice and the New England
Economy, the report of a NEBHE panel of distin-
guished lawyers, judges, law school deans and busi-
ness leaders. The report finds that while lawyers have
contributed to the region’s economy, growth in the
legal profession has not worked to curb legal costs,
reach more middle class and poor people or ensure
professional competence.

Tuition surcharge on Regional Student Program is
raised to 50 percent.

Number of New England high school graduates
begins sharp decline.

Boston University wins approval to manage the
Chelsea, Mass. public schools, becoming the first pri-
vate institution to manage a public school system.

Massachusetts Institute of Technology becomes the
first university ever to be granted more than 100
patents in one year.
should take place at home when there is research evidence that a school experience that addresses development can help. But higher education has not done nearly enough and is not doing nearly enough to prepare a pre-service and in-service administrator and teacher workforce with the knowledge, skills and incentives needed to create a school-based culture in which the full development of students can take place. Indeed, the neuroscience research base needed to guide change in teacher preparation is sparse and underutilized. And the policies and practices are not in place to enable even willing institutions to join development and pedagogy.

It is very unlikely that new educator programs now emerging outside traditional higher education can address the need. And it is the height of self-deception to believe that our country can remain competitive and reasonably well-functioning with a widening human development gap. Higher education must seriously address issues of childrearing and development if our country is to remain strong.

**Dr. James Comer** is the Maurice Falk Professor of Child Psychiatry at the Yale University School of Medicine’s Child Study Center and founder of the Comer School Development Program, which promotes the collaboration of parents, educators, and community to improve outcomes for children.

**A Future in Concrete?**

**SEYMOUR PAPERT**

I accuse the system of Higher Education of failure to carry out due diligence in considering the opportunities for early learning created by digital technologies. While it is widely recognized that the baggage of knowledge and attitudes brought by students entering universities is deeply affected by their digital experience, the Education Establishment has shown extraordinary passivity toward development of the experience.

How young people experience the digital world is shaped by the tools offered by the computer industry: office suites, search engines, games and chat rooms. School has been entirely reactive: “computer literacy” is defined as mastery of the proffered tools, “educational technology” is defined as “integrating” these tools into teaching practices. I find it quite extraordinary that schools have not taken advantage of the love affair between children and computers to give the science underlying these wonderful machines a significant place in the school curriculum. If this were successfully done, the young generation would have the chance to develop a love for science by seeing it used in an area that affects them. Indeed, they could use it themselves by engaging in intellectually deeper applications of the technology.

It is quite paradoxical that the standards for science education systematically exclude the sciences of computation, information and complexity (CIC) in favor of updated versions of the disciplines established in earlier centuries. This is made doubly paradoxical by the fact that the CIC disciplines have spawned new ways of doing science that could empower young learners as they empower professional scientists. For example: many cutting-edge scientific problems that were too complex for equation-based theories succumb to programming-based modeling; in the same way, children who have learned to program are able to think creatively about problems too complex for the old-fashioned mathematics that is being cast in the concrete of school standards.

My accusation is less that schools mindlessly follow the curriculum than that the intellectual world is

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University of Maine at Augusta begins offering courses at remote sites via fiber optic and microwave, beginning one of the nation’s leading educational telecommunications programs. Median salary for U.S. college presidents is $126,027.

1990 National Science Foundation awards multimillion-dollar National High Magnetic Field Laboratory to Florida State University over the Massachusetts Institute of Technology, symbolizing for many the erosion of New England’s longstanding research edge.

The Baby Bust reaches New England campuses; NEBHE’s 31st annual vacancy survey reveals more than 19,000 full-term openings for qualified freshmen as of the traditional May 1 deadline.

National Center on Education and the Economy publishes America’s Choice: High Skills or Low Wages!, including benchmark recommendations to increase workforce productivity.

Congress passes the Student Right-to-Know and Campus Security Act, requiring colleges and universities to provide information on graduation rates of student-athletes and crime statistics.

University of Maine System Chancellor Robert L. Woodbury assumes NEBHE chairmanship.


New England unemployment rate averages 8 percent, compared with national average of 6.7 percent.

A string of more than 30 Massachusetts bank failures over two years culminates with the collapse of the Bank of New England, the nation’s fourth largest bank failure at the time. The bank’s assets are acquired by Fleet/Norstar Financial Group of Rhode Island, which would also take over Bank of Boston before being acquired by Charlotte N.C.-based Bank of America.
passively unconcerned about whether there might be something better.

*Seymour Papert* is cofounder of the MIT Artificial Intelligence Lab and founder of the Maine-based Learning Barn. For more along these lines, see: www.learningbarn.org

**Teaching Expert Thinking**

**CHRIS Dede**

The new baseline for entry into the 21st century workforce is no longer a high school diploma, but rather, an associate degree—and a decade from now, an even greater level of education will probably be required.

In their 2004 book titled *The New Division of Labor*, economists Frank Levy of MIT and Richard Murnane of Harvard document how: “Declining portions of the labor force are engaged in jobs that consist primarily of routine cognitive work and routine manual labor—the types of tasks that are easiest to program computers to do. Growing proportions of the nation’s labor force are engaged in jobs that emphasize expert thinking or complex communication—tasks that computers cannot do.”

Levy and Murnane go on to explain that “expert thinking” involves “effective pattern matching based on detailed knowledge, and metacognition, the set of skills used by the stumped expert to decide when to give up on one strategy, and what to try next.”

“Complex communication,” the two economists note, requires “the exchange of vast amounts of verbal and nonverbal information. The information flow is constantly adjusted as the communication evolves unpredictably.”

Expert thinking and complex communication require sophisticated skills and knowledge typically infused by college education rather than secondary schooling. Higher education must rise to this challenge, rethinking both its mission and its relationships with economic development groups and workforce training organizations.

This transformation will require a few immediate shifts in standard operating practices, including:

- Shifting the emphasis in general education coursework from providing basic knowledge about the subject area to instead modeling and experiencing the types of expert thinking and complex communication in which that field’s practitioners engage. For example, courses in history would have as their primary educational objective enhancing students’ skills in interpretive reasoning given incomplete, inconsistent and biased data.

- Reconfiguring the structure of public education to K-14 as the minimum educational attainment guaranteed through universal access. This change would require much closer alignment between higher education and secondary schooling, with massive shifts in both types of organizations’ curriculum, pedagogy, assessments, organizational structure, staffing and incentive systems.

- Investing in the sophisticated information and communications technology infrastructure necessary to foster educational, workforce and economic development through lifelong activities on and off campus, parallel with forward-thinking nations’ strategies for success in the global, knowledge-based marketplace.

A lesser response would be like shifting deck chairs on the Titanic.

**Chris Dede** is the Wirth Professor in Learning Technologies at Harvard University.

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**Military operations end at Pease Air Force Base.**

Security concerns stemming from Persian Gulf War result in cancellation of various study-abroad programs.

Massachusetts and West Virginia make unsuccessful bids to lure students from heavily damaged Kuwait University.

Tuition and mandatory fees at New England’s private four-year colleges average $13,487, compared with $10,017 nationally. Tuition and mandatory fees at the region’s public four-year colleges average $3,439, compared with $2,137 nationally.

1992 Congress passes Higher Education Amendments, tightening rules for institutions participating in federal aid programs and establishing controversial State Postsecondary Review Entities to set statewide standards and deal with fraud and abuse.

Defense “drawdown” rattles defense-dependent local economies from Groton, Conn., to Bath, Maine. Connecticut sees value of defense contracts shrink from $5 billion to $3.1 billion in one year.

New England public colleges and universities stung by budget cuts. The state higher education appropriation in Massachusetts is down more than 30 percent from 1988.

New England is mired in recession. *Newsweek* tells readers: “The trick this year is finding those regions and occupations displaying a bit more strength than others. The Southwest and Mountain states, for instance, are growing modestly. One quick bit of advice: forget the Northeast; it’s a disaster.”

Franklin Pierce College President and former New Hampshire Gov. Walter Peterson assumes NEBHE chairmanship.
Affordability and Opportunity

SANDY BAUM

New England’s future well-being depends upon continually expanding educational opportunities. But college tuition levels in New England are high. On average, the published price of a four-year college education in the region is about 30 percent higher than the average for the nation as a whole. Though incomes are also higher than average in four of the six New England states, the $7,000 or so price of a year at a typical four-year public institution in New England is out of reach for a significant portion of the population. It may be somewhat encouraging to note that college prices have risen more rapidly elsewhere in the country over the past decade. But the access problem will remain very real no matter what happens to tuition and fees, as living costs and foregone earnings alone provide insurmountable barriers to college for many.

How can New England ensure that it not only preserves its standing as a well-educated region, but also increases the proportion of 9th graders who earn college degrees in a timely manner—a share that is above the national average, but still below 30 percent in every New England state?

Higher education is obviously not the only answer to this problem, given the difficulties at earlier stages of the education pipeline. But it is an indispensable piece of the puzzle.

Access and affordability depend more on the price students actually pay for college than on the published tuition levels. Considerable effort must be made to guarantee that whatever levels of tuition prevail, all low-income students who can benefit from higher education have access to sufficient grant funds to enroll and succeed in college. New England has generally succeeded in directing grant aid to students based on their financial need, despite a nationwide shift toward non-need-based “merit aid.”

It would be a mistake for New England to follow the example of those states that are attempting to use their funds to induce students who might otherwise go to college out of state to study locally. Both equitable and efficient use of public funds require using our dollars to change the behavior of students who would not otherwise be able to afford college. Attracting college graduates with loan forgiveness or other incentives would be a better approach to any outmigration problem than would luring college students with merit aid.

Providing realistic opportunities for all young people, as well as for older individuals who need additional education and training to succeed in the workforce, must be a priority for all the New England states. We should develop programs that provide a clear and reliable commitment to children from low- and moderate-income families that the funds they need to finance a college education will be available if they meet the academic requirements.

An innovative approach might involve annual contributions to college savings accounts for children from low-income families. A program that provides these young people with their own funds years before they finish high school would address their financial problems and academic preparation problems simultaneously. This type of policy would go a long way toward ensuring that New England weathers future economic slowdowns without sacrificing the educational opportunities that provide the foundation for a healthy economy over the long run. Any sense of complacency or loss of focus on these goals will cost the region dearly for years to come.

Sandy Baum is a professor of economics at Skidmore College in New York and senior policy analyst at the College Board.

A Half Century of New England Higher Education and Economic Development, continued

1993 NEBHE creates the New England Technical Education Partnership, bringing together educators and other professionals to improve New England’s two-year technical education programs.

Congress passes Student Loan Reform Act, calling for “direct lending” from the U.S. Treasury through colleges to students, and National Service Trust Act, providing education grants in exchange for community service.

Total charges at Yale University pass the $25,000 mark.

Wellesley College reports a 15 percent rise in freshman applications, attributed partly to the popularity of activist First Lady Hilary Rodham Clinton, who graduated from the women’s college in 1969.

1994 NEBHE establishes Regional Commission on Telecommunications and Distance Learning to clarify the challenges and opportunities the field presents to New England.

With support from the Pew Charitable Trusts, the Ford Foundation and others, NEBHE and two other regional education agencies—the Southern Regional Education Board and the Western Interstate Commission for Higher Education—launch “Compact for Faculty Diversity” program to increase the number of African-Americans, Hispanics and Native Americans who complete Ph.D.s and enter college teaching.
Clinton administration unveils plans for National Information Infrastructure, and plans to relax 60-year old federal communications regulations.

A consortium of Vermont’s six public higher education institutions agree to manage all employee education and training for IBM Burlington, Vermont’s largest private employer.

Connecticut Higher Education Commissioner Andrew G. De Rocco assumes NEBHE chairmanship.

Connecticut adopts 10-year, $1 billion UConn 2000 initiative to modernize Storrs campus.

1995 NEBHE launches New England Environmental Education Program, including an internship program that would provide more than 200 New England students from 59 colleges and universities with jobs, academic counseling, professional development and leadership training through real-world environmental work experiences with New England corporations, state government agencies and nonprofit organizations.

NEBHE receives federal grant to help schools and colleges introduce fiber optics technology into curriculum.


New England’s total college enrollment dips to 795,000, down from a peak of 827,000 in 1992.

Former Rhode Island Higher Education Commissioner Eleanor M. McMahon assumes NEBHE chairmanship.

1997 Federal Taxpayer Relief Act creates Hope Scholarship, Lifelong Learning Tax Credit and other tax benefits for college.

A Plan for Higher Education Access
JOHN F. TIERNEY

A recent New England Council report emphasized a well-known fact: a strong public higher education system is critical to a state’s economic viability. Businesses rely on public college and university graduates—almost 80 percent of whom remain in state—as the next generation of innovators and as a necessary highly qualified workforce.

The reauthorization of the federal Higher Education Act underway in Congress has provided a forum for debate of issues such as college access and affordability. An alternative supported by House Education Committee Democrats addresses college affordability and accessibility in several ways.

First, the plan would require states to restore funding for public higher education. A direct parallel exists between shrinking state support for public higher education and higher tuitions for students and their families. States should be obligated to maintain a reasonable contribution if they are to receive federal assistance in administering education programs.

All institutions—whether public or private—could also benefit from new incentives to keep costs down. The U.S. Department of Education would research successful cost containment strategies and share them broadly. Schools that keep costs within a higher education price index would receive bonus Pell Grant funds to award to eligible students, with special benefits when a commitment is made and kept to hold those rates down for the students’ entire four-year stay.

Because more students are qualifying for college, and more families are financially eligible, the Pell Grant maximum would be doubled, helping lower- and middle-income families meet tuitions. For those who must borrow to meet obligations, cost-saving Direct Loans would be encouraged, and when consolidating loans, students could choose between a low fixed or variable interest rate with a low cap, saving borrowers thousands of dollars.

Finally, our initiative would simplify the financial aid application process by establishing a procedure to give students early estimates of federal student aid eligibility so they and their families can plan ahead.

A strong federal-state partnership to provide quality, affordable higher education is critical, and businesses and families must insist that we adequately invest in our future. Such opportunity must be part of New England’s, and America’s, competitive strategy.


Diversifying Academic Knowledge
ESTHER KINGSTON-MANN

In a world of media spin, where each talking head lays claim to a different and contradictory set of “facts,” the good news is that today’s academic scholarship also produces many facts that are not contradictory and provide opportunities for understanding and competence that were nonexistent 20 years ago. Many of these new resources were the creations of diversity research—scholarly investigations that place the heterogeneity of human life and experience at center stage.

In the 1960s, before the explosion of research in all fields that critiqued, challenged and transformed what was previously viewed as the best and soundest scholarship, the university’s traditional academic course offerings were prone to highlight the universal achievements of a Western European, male middle class. Although this group remains eminently worthy of...
careful study, it represents only a part of the human story. And as my philosopher-colleagues like to remind me, the part is not the same as the whole. So: If we believe that academic knowledge is valuable because it fosters, however imperfectly, a better understanding of reality, and more competent engagement with the world, then it becomes necessary to consider not only this much-studied group, but also the majorities that the Uruguayan essayist Eduardo Galeano once described as the hundreds of millions who have “been standing in line for centuries to get into history.”

Two examples: 1) In the field of medicine, an exclusive focus on males as the appropriate research subjects produced cardiovascular research that prevented doctors from recognizing the significant differences between men and women both in symptoms and response to treatment of heart attack (or from noticing that cardiac death rates among black women are two-thirds higher than for white women). Scholars who raised questions about gender and race opened the possibility for better medical treatment for everyone. Unfortunately, much of the research on diagnosis and treatment in the last 20 years continues either to exclude women entirely or include only limited numbers of women. 2) In the study of adolescents and families, Western mainstream scholarship traditionally focused on the universality of “adolescent stress,” caused by inevitable tensions between family demands and the peer pressures that foster disregard for them. However, cross-cultural research indicates that in many contexts, adolescence instead marks the transition to more adult roles within the family and community (with peer pressure a far less influential factor). Cross-cultural investigations have increased from 5 percent of the total in the 1950s to 14 percent in 2005. It is hard to imagine that this research will fail to enhance the competence of scholars, policymakers and practitioners of family and individual therapy who work with diverse populations.

In these fields and in many others, advances in scholarship are opening new possibilities for productive encounters with a complex and heterogeneous world. Take a moment to imagine this message as a clear and unapologetic statement about the aims and goals of higher education. There are no guarantees of course, but educators should nevertheless take heart. A widespread and massive engagement with academic knowledge might in fact produce some welcome surprises.

Esther Kingston-Mann is a professor of history/American studies at the University of Massachusetts Boston, where she received the 2005 Chancellor’s Award for Distinguished Scholarship.

Close the Latino Education Gap
MARILDA L. GANDARA

Thoughtful people across the political spectrum debate the merits of educational programs for African-Americans, Latinos and other minority groups. Differences of opinion around affirmative action, Head Start, the No Child Left Behind Act and the education of immigrant children lead to intense arguments. Yet I rarely hear discussion about how insufficient financial support for college costs impacts this population.

I came to this country in 1960. In eight years, I was able to attend a private college with only a partial scholarship, minimal debt and the hard work of my parents. Later, my law school tuition was $1,500 a year. While it was not easy, it was doable; all we had to do was dream big and work hard. I wonder if that is true today.
I recently talked to a young Latina who reminds me of myself at age 19. She came to this country at age 3 and completed high school with honors in a middle-class suburban town. She then enrolled in a nursing program at a New England university where she attained a 3.5 grade point average in her first year. This summer, after receiving a letter notifying her of another tuition increase, she calculated that her debt at graduation would be more than $150,000. How could she hope to pay that off? Feeling a sense of defeat, she decided to quit college and go to work instead.

One-third of Americans finish college, but only one-third of Latinos finish high school. Given rapidly changing demographics, the nation’s future in a competitive global economy depends to a considerable degree on how successful we are at closing that education gap.

Transitional action to even out the playing field is in everyone’s best interest. We need to continue affirmative action and effective programs like Head Start. Working with parents of students in middle school or younger, we need to experiment with ways to orient the entire family toward the value of higher education and the long-term planning needed to successfully navigate a college education. We also need to explore curricular changes such as offering an organized academic program in small business development, which could be particularly attractive to a population that is very entrepreneurial.

Latinos want the same thing as everyone else—a reasonable shot at the American Dream. If that dream is only accessible to the wealthy, we will not have to worry about immigration for long. If there is no credible dream to strive for, it is not only the fate of Latino children we will need to consider.

Marilda L. Gandara is president of the Aetna Foundation.

Attracting Students to Science

GEORGE M. LANGFORD

Undergraduate science and engineering (S&E) majors are the bright minds that become the scientists and engineers of tomorrow. Technically trained students graduate with high employment potential and usually land jobs with high salaries. One might ask then, why do U.S. undergraduates pursue S&E majors at lower rates than their counterparts in other countries?

The United States ranks 17th globally in the proportion of its college-age population that earns S&E degrees, down from third several decades ago, according to the Council on Competitiveness. China, because of its large population, graduates three times as many engineers from its colleges as the United States does. Many other nations today boast a higher percentage of 24-year-olds with S&E degrees than the United States.

As the number of U.S. students studying science and engineering in graduate schools has dropped, schools and employers have compensated by enrolling and employing more students and professionals from other countries.

In 2003, foreign students earned 38 percent of science doctorates awarded by U.S. universities, and foreign professionals occupied 22 percent of all U.S. science and engineering jobs, up from 14 percent just 10 years before, according to National Science Board data.

But we cannot tolerate a continually low participation rate of U.S. students in science and engineering fields and growing reliance on foreign S&E talent.

Over-reliance on foreign-born scientists and engineers discourages U.S. students from entering these fields for two important reasons. First, an abundance of international scientists and engineers eager to work in the United States produces downward pressure on U.S. wages. Second, it takes the pressure off our

Marilda L. Gandara is president of the Aetna Foundation.

2000 New England sustains lowest-ever unemployment rate of 2.7 percent. Region’s technology-intensive companies cannot fill jobs as a skilled labor shortage dogs the region.


2001 September 11 terrorist attacks prompt restrictions on student visa policies and usher in an era of reduced foreign enrollments, increased campus security and constraints on freedom of speech.

New England bleeds 85,000 jobs over the course of the year, many in technology industries.

Reversing this pattern will be challenging. For one thing, U.S. students have a broad range of attractive career options from which to choose. In addition, because the American educational system is controlled by state and local school districts and autonomous higher education institutions, generating change on a national scale is difficult.

The good news is that a large number of U.S. domestic students begin with an interest in science. About 30 percent of students entering U.S. colleges intend to major in S&E fields. This proportion has remained fairly constant over the past 20 years. However, a considerable gap exists between freshman intentions and successful degree completion. Undergraduate S&E programs report the lowest retention rate among all academic disciplines. Fewer than half of the students who began S&E programs in 1990 completed S&E degrees in five years, according to one study published in 1996 by the National Center for Education Statistics.

Rather than assume that the foreign supply of talent will always be available to fuel our technology-driven economy, we need to work harder to attract and train those bright kids who become tomorrow’s scientists and engineers. One way to start is to implement the recommendations of the 2003 National Science Board report titled The Science and Engineering Workforce—Realizing America’s Potential, which called on the federal government to take primary responsibility in meeting long-term needs for science and engineering skills in the U.S. workforce. Specifically, the report called on the federal government to:

• Direct substantial new support to students and institutions to improve success in S&E study by American undergraduates from all demographic groups.

• Provide scholarships and other forms of financial assistance for full-time enrollment in S&E fields.

• Expand university faculty and teaching labs for S&E education in areas of national need.

• Increase student transfers from community colleges to four-year S&E programs.

• Expand recruitment of underrepresented minorities and women in S&E.

We face a long-term challenge to sustain the U.S. global advantage in science and technology by fielding the world’s best S&E workforce. We should not allow the strength and vitality of the nation’s scientific and technology enterprise to slip away.

George M. Langford is dean of the College of Natural Sciences and Mathematics at the University of Massachusetts Amherst.

A Regional Resource for R&D
ANDREW G. DE ROCCO

For a decade or more, a shifting pattern of postgraduate study has been taking place. Not only has a greater proportion of degrees in the sciences been awarded to foreign nationals, but their subsequent opportunities abroad have grown, loosening our hold on their imaginative exploration of the unknown.

In addition, as both China and India, among others, plan for increased educational opportunities locally, the longstanding appeal we have held for able students may well shrink. Together with a modest domestic enrollment in these areas of study, one is given to wonder what impact this diminishing cadre will have on what has been characterized as our “creative economy.” If we cannot depend on past patterns of enrollment, can we establish new ones?

A Half Century of New England Higher Education and Economic Development, continued


University of New Hampshire awarded National Endowment for the Humanities grant to host Center for New England Culture.

Middlesex Community College President Carole A. Cowan assumes NEBHE chairmanship.

2003 NEBHE launches New England Higher Education Excellence Awards program to honor New England individuals and organizations who show exceptional leadership in behalf of higher education, public policy or the advancement of educational opportunity. First-year winners include: U.S. Sen. Edward M. Kennedy (D-Mass.); Dr. Marja Hurley, a professor at the University of Connecticut School of Medicine, the late Eleanor M. McMahon, who served as Rhode Island higher education commissioner from 1982 to 1989, and the Massachusetts Institute of Technology.

NEBHE launches Project PHOTON2, an initiative funded by the National Science Foundation to give educators the knowledge and resources needed to implement and teach photonics technology at their institutions.

NEBHE cosponsors Portland, Maine, conference, on reauthorization of the Higher Education Act, in which New England members of congress and education leaders warn of congressional proposals to deeply involve the federal government in higher education pricing and policies.
The colleges and universities of New England have been significant contributors to the nation’s “intellectual capital” and the resulting “spinoffs” have boosted the economy. We might ask: Can NEBHE play a useful role in advancing the strength of our regional potential for study, discovery and utilization? And if so, how?

The growing vitality of our publicly supported universities suggests a possibility. Can NEBHE help to broker additional research and study opportunities across the public-independent divide? Our independent colleges have an enviable track record in fostering the sciences, and a few offer an undergraduate degree in engineering. Are there as yet underdeveloped possibilities for cross-enrollment and research internships for students? Research faculty are alert to the advantages of collaboration. Can NEBHE help foster a greater conjunction between our research centers, public and private?

While these suggestions raise questions of asset allocation, organization and management and of contractual obligations, all of which will require a sensible realization of the benefits to be enjoyed, none need be a barrier to a freer association of talent and interest.

If we think and act regionally, setting aside historical differences, it may be possible not simply to maintain our distinction but to hone it to an even finer edge.

Andrew G. De Rocco is the former Connecticut commissioner of higher education. He served as NEBHE chair from 1994 to 1996.

A Tall Order for New England
ROBERT E. MILLER

A half century ago, six New England governors established one of the nation’s most successful agencies for interstate cooperation. The New England Board of Higher Education has expanded educational opportunity for thousands of students through its Regional Student Program, saving families millions of tuition dollars. State governments have saved untold millions by not having to duplicate costly programs that exist at out-of-state institutions.

NEBHE’s studies, conferences and publications focused on the higher education “industry” have heightened awareness on the part of policymakers of the importance of sustaining the region’s many colleges and universities and promoting their well-being as a vital part of the “creative economy.”

As we celebrate NEBHE’s past achievements, it is important to look ahead and envision other ways NEBHE may fulfill its mission. Today, we have technology not imagined in 1955 that opens enormous possibilities for sharing resources not only among public institutions, but also between the public and private sectors.

Competition can be replaced by collaboration. But this will require imaginative leadership. It will call for an exchange of ideas by college trustees, administrators, faculty and staff. NEBHE can play an extremely valuable role as facilitator, helping to develop the most complete, comprehensive and efficient education consortium in the United States. A tall order to be sure, but one that is attainable given New England’s tradition of innovation and NEBHE’s record of service to the higher education community.

Robert E. Miller is the former president of Quinebaug Valley Community College. He served as NEBHE chair from 1981 to 1983.