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PUBLIC HEARING

before

SUB-COMMITTEE ON GOVERNMENTAL OPERATIONS, PUBLIC INVESTMENTS
AND FINANCE OF THE ASSEMBLY APPROPRIATIONS COMMITTEE

ASSEMBLY BILL NUMBER 2768 (2R)

(Jobs, Education and Competitiveness Bond Act of 1988)

June 13, 1988
First Floor Conference Room
State Library
Trenton, New Jersey.

MEMBERS OF COMMITTEE PRESENT:

Assemblyman Rodney P. Frelinghuysen, Chairman
Assemblyman John V. Kelly
Assemblyman Byron M. Baer
Assemblyman John S. Watson

ALSO PRESENT:

Thomas A. Hancock
Office of Legislative Services
Aide, Assembly Sub-Committee on Governmental
Operations, Public Investments and Finance of
the Assembly Appropriations Committee

* * * * *

Hearing Recorded and Transcribed by
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Trenton, New Jersey 08625

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New Jersey State Legislature
ASSEMBLY APPROPRIATIONS COMMITTEE
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June 3, 1988

NOTICE OF A PUBLIC HEARING

The Sub-Committee on Governmental Operations, Public Investments and Finance of the Assembly Appropriations Committee will hold a public hearing on Monday, June 13, 1988 beginning at 10:00 a.m. in the First Floor Conference Room of the State Library, Trenton, N.J.

The purpose of the public hearing is to take testimony, in accordance with Rule 140 of the Rules of the General Assembly, on Assembly Bill No. 2768, the "Jobs, Education and Competitiveness Bond Act of 1988," which authorizes the issuance of \$350,000,000 in state bonds for higher education facilities and related purposes.

Anyone wishing to testify should contact Thomas A. Hancock, Committee Aide, at (609) 984-6799.

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* * * * *

ASSEMBLY APPROPRIATIONS COMMITTEE

STATEMENT TO

ASSEMBLY, No. 2768 (1R)

with Assembly committee amendments

STATE OF NEW JERSEY

DATED: JUNE 9, 1988

The Assembly Appropriations Committee favorably reports Assembly Bill No. 2768 (1R) with committee amendments.

Assembly Bill No. 2768 (1R), as amended, authorizes the issuance of \$350,000,000 in State bonds for construction of buildings at public and private institutions of higher education. The bonds will also be used for advanced technology centers and equipment at public and private institutions of higher education.

Of the total amount, \$285,000,000 is for public and private institutions of higher education in New Jersey, as follows:

1. \$80,000,000 for the State colleges.
2. \$60,000,000 for Rutgers, the State University.
3. \$10,000,000 for the Agricultural Experiment Station of Rutgers, The State University.
4. \$25,000,000 for the University of Medicine and Dentistry of New Jersey.
5. \$20,000,000 for the New Jersey Institute of Technology.
6. \$25,000,000 for the county colleges.
7. \$20,000,000 for private institutions of higher education.
8. \$45,000,000 to be allocated by the Board of Higher Education for statewide and regional projects at public and private institutions of higher education.

The funds for campus facilities require an institutional match equal to 100% for private institutions and 50% for public institutions.

The balance of the bond issue, \$65,000,000, is to be used for advanced technology centers as follows:

- a. \$44,000,000 for establishment of advanced technology centers at public and private institutions of higher education, including: agricultural biotechnology, based at the Cook College campus of Rutgers University in New Brunswick; surface sciences technology, at several of the State's public and private institutions of higher education; and materials science/photonics, based at Princeton University.

b. \$21,000,000 for additional facilities at, and the acquisition of additional and upgraded equipment for, existing advanced technology centers, including: the Center for Hazardous and Toxic Substance Management, based at the New Jersey Institute of Technology in Newark; the John von Neumann Center for Scientific Computing, based at the Princeton Forrestal Center in Plainsboro; and the Center for Computer Aids for Industrial Productivity, based at the Busch Campus of Rutgers University in Piscataway.

These funds also require a plan to finance a significant portion of the centers' construction and operating costs from business, industry and other non-State funds.

FISCAL IMPACT

This bill, as amended, appropriates \$5,000 from the General Fund to the Department of State for the costs of this proposed bond issue publication notice. Subject to voter approval, this bill authorizes the issuance of \$350,000,000 in State bonds for higher education purposes.

COMMITTEE AMENDMENTS

The committee amendments, as recommended by the Sub-committee on Governmental Operations on June 2, 1988, accomplish two major purposes. First, at the request of the Department of Higher Education, the allocation for unspecified statewide and regional projects is modified to be available to private, as well as public, institutions; in addition, the matching funds requirements are changed to apply to the aggregate bond fund allocation, for institutions receiving an allocation for more than one project. Second, a series of technical and clarifying language changes are made to conform the bill to proper bond authorization form.

STATE OF NEW JERSEY

INTRODUCED MARCH 14, 1988

By Assemblymen MORAN, ROCCO, Assemblywoman Cooper,
Assemblymen Collins, Doria and Impeveduto

1 **AN ACT** authorizing the creation of a debt of the State of New
2 Jersey by the issuance of bonds ²of the State² in the ²[sum]
3 aggregate principal amount² of \$350,000,000.00 for the
4 ²purpose of the² construction, reconstruction, development,
5 extension, improvement and equipment of classrooms,
6 academic buildings, libraries, computer facilities and other
7 higher education buildings at New Jersey's public and private
8 institutions of higher education; the establishment and
9 construction of advanced technology centers at public and
10 private institutions of higher education, and for the expansion
11 and construction of additional facilities at, and acquisition of
12 additional and upgraded equipment for existing advanced
13 technology centers sponsored by the New Jersey Commission
14 on Science and Technology; ²[setting forth] authorizing the
15 issuance of refunding bonds; providing² the ways and means to
16 pay ²and discharge² the ²principal of and² interest on ²[this
17 debt and also to pay and discharge the principal thereof;
18 providing for the refinancing of any or all of these bonds under
19 certain circumstances] the bonds and refunding bonds² ;
20 providing for the submission of this act to the people at a
21 general election ²₁² and making an appropriation ²therefor² .

23 **BE IT ENACTED** by the Senate and General Assembly of the
24 *State of New Jersey:*

25 1. This act shall be known and may be cited as the "Jobs,
26 Education and Competitiveness Bond Act of 1988."

27 2. The Legislature finds that:

28 a. New Jersey, beginning in 1984, started on the road to
29 economic revitalization by systematically joining advanced
30 technology research at its public and private institutions of
31 higher education with industrial sponsorship and improving
32 various technological facilities and programs at New Jersey's
33 public and private institutions of higher education for purposes of
economic development and the creation of new jobs.

EXPLANATION—Matter enclosed in bold-faced brackets [thus] in the
above bill is not enacted and is intended to be omitted in the law.

Matter underlined thus is new matter.

Matter enclosed in superscript numerals has been adopted as follows:

¹ Assembly AHE committee amendments adopted April 18, 1988.

² Assembly AAP committee amendments adopted June 13, 1988.

1 b. These efforts are highlighted by the construction of
2 advanced technology centers, where new science and technology
3 work will take place, funded by the "Jobs, Science and
4 Technology Bond Act of 1984," P.L. 1984, c. 99, as approved
5 overwhelmingly by the voters of New Jersey.

6 c. These new advanced technology centers and other academic
7 facilities ¹[represent] represented¹ but the first wave of activity
8 in New Jersey, which must be sustained through the decade of the
9 1990s and beyond if the State is to do its part to restore
10 competitiveness and productivity to our nation. This requires the
11 partnership of the public and private sectors, of the State and
12 federal governments, and of industry and higher education to
13 expand New Jersey's investment in the future -- in the
14 technology-based jobs of the future -- by providing needed new
15 construction and growth.

16 d. If New Jersey is to maintain expansion of its development
17 and continue to provide an adequately trained work force to
18 retain and attract industry to the State, New Jersey's public and
19 private institutions of higher education must be strengthened and
20 continue to provide services necessary to accomplish these goals.

21 e. In order to fulfill this mission, New Jersey's public and
22 private institutions of higher education must have adequate and
23 modern facilities to provide for necessary educational and job
24 training programs.

25 f. The Board of Higher Education, which is statutorily
26 responsible for the coordination and planning of higher education
27 in New Jersey, has recognized a crucial need to expand and
28 update academic facilities at New Jersey's public and private
29 institutions of higher education and has recommended that funds
30 be provided to complete such projects.

31 g. The New Jersey Commission on Science and Technology has
32 served as the catalyst for a dynamic new partnership between
33 private industry and the State's public and private institutions of
34 higher education, and utilized this partnership to create a
35 network of advanced technology centers in those technological
36 fields in which New Jersey has shown exceptional industrial and
37 academic strength and potential for growth.

38 h. The New Jersey Commission on Science and Technology,
39 which is statutorily responsible for formulating long-range plans

1 and programs for science and technology in New Jersey. has
recommended that funds be provided for additional advanced and
3 programs for science and technology in New Jersey, has
recommended that funds be provided for additional advanced
5 technology centers at various public and private institutions of
higher education. Moreover, the commission has also identified
7 the funding needed to take its next major steps to develop and
improve New Jersey's research centers, and, in turn, its economy.

9 3. As used in this act, unless the context indicates a different
meaning or intent:

11 a. "Advanced technology centers" means outstanding programs
or departments at New Jersey's public and private institutions of
13 higher education, which are provided substantial and
concentrated financial support to promote their development into
15 national level bases for innovative technology research.

b. "Board of Higher Education" means the board established
17 pursuant to N.J.S. 18A:3-1.

c. "Bonds" means the bonds authorized to be issued, or
19 issued ^{2,2} under this act.

d. "Construct" and "construction" mean, in addition to the
21 usual meaning thereof, the planning, erecting, purchasing,
improving, developing, constructing, reconstructing, extending,
23 rehabilitating, renovating, upgrading, demolishing and equipping
of facilities at public and private institutions of higher education.

25 e. "Cost" means the expenses incurred in connection with: the
acquisition by purchase, lease ^{2,2} or otherwise, the development,
27 and the construction of any project authorized by this act; the
²[execution] acquisition by purchase, lease, or otherwise, and the
29 development² of any real or personal property ²for use in
connection with a project authorized by this act², including any
31 rights or interests therein ²[, and];² the execution of any
agreements and franchises deemed by the Board of Higher
33 Education or the New Jersey Commission on Science and
Technology to be necessary or useful and convenient in
35 connection with any project; the procurement of engineering,
inspection, planning, legal, financial ^{2,2} or other professional
37 services, including the services of a bond registrar or an
authenticating agent; the issuance of bonds, or any interest or
39 discount thereon; the administrative, organizational, operating or

1 other expenses incident to the financing, completing ^{2,2} and
3 placing into service of ²[projects] any project² authorized by this
5 act; the establishment of a reserve fund or funds for working
7 capital, operating, maintenance ^{2,2} or replacement expenses and
9 for the payment or security of principal or interest on bonds, as
11 the Director of the Division of Budget and Accounting in the
Department of the Treasury may determine; and reimbursement
to any fund of the State of moneys which may have been
transferred or advanced therefrom to any fund created by this
act, or of any moneys which may have been expended therefrom
for ^{2,2} or in connection with ^{2,2} any project authorized by this
act.

13 f. "Government securities" means any bonds or other
obligations which as to principal and interest constitute direct
15 obligations of ^{2,2} or are unconditionally guaranteed by, the
United States of America, including obligations of any federal
17 agency to the extent those obligations are unconditionally
guaranteed by the United States of America ^{2,2} and ²any²
19 certificates or any other evidences of an ownership interest in
those obligations of, or unconditionally guaranteed by, the United
21 States of America or in specified portions of those obligations,
which may consist of the principal of, or the interest on, those
23 obligations.

g. "Higher education buildings" means buildings, structures
25 and facilities required for the operation of public and private
institutions of higher education .

27 h. "New Jersey Commission on Capital Budgeting and
Planning" means the commission established by section 2 of P.L.
29 1975, c. 208 (C. 52:9S-2).

i. "New Jersey Commission on Science and Technology" means
31 the commission established by section 3 of P.L. 1985, c. 102 (C.
52:9X-3).

33 j. "Private institutions of higher education" means
independent colleges or universities incorporated and located in
35 New Jersey, which by virtue of law or character or license, are
nonprofit educational institutions authorized to grant academic
37 degrees and which provide a level of education which is
equivalent to the education provided by the State's public
39 institutions of higher education as attested by the receipt of and

1 continuation of regional accreditation by the Middle States
2 Association of Colleges and Schools, and which are eligible to
3 receive State aid under the provisions of the Constitution of the
4 United States of America and the Constitution of the State of
5 New Jersey, but does not include any educational institution
6 dedicated primarily to the education or training of ministers,
7 priests, rabbis or other professional persons in the field of
8 religion.

9 k. "Project" means the establishment and construction of
10 higher education buildings or advanced technology centers and
11 the expansion and construction of additional facilities at, and the
12 acquisition of additional and upgraded equipment for existing
13 higher education buildings or advanced technology centers
14 sponsored by the Board of Higher Education or the New Jersey
15 Commission on Science and Technology.

16 l. "Public institutions of higher education" means Rutgers, The
17 State University, the State colleges, the New Jersey Institute of
18 Technology, the University of Medicine and Dentistry of New
19 Jersey, the county colleges and any other public university or
20 college now or hereinafter established or authorized by law.

21 4. The Board of Higher Education shall adopt, pursuant to the
22 "Administrative Procedure Act," P.L. 1968, c. 410 (C. 52:14B-1
23 et seq.), the rules and regulations necessary and appropriate to
24 carry out the provisions of this act as described in subsections a.
25 through h. of section 5 of this act. The New Jersey Commission
26 on Science and Technology shall adopt, pursuant to the
27 "Administrative Procedure Act," P.L. 1968, c. 410 (C. 52:14B-1
28 et seq.), the rules and regulations necessary to carry out the
29 provisions of this act as described in subsections i. and j. of
30 section 5 of this act. The Board of Higher Education and the New
31 Jersey Commission on Science and Technology shall both review
32 and consider the findings and recommendations of the New Jersey
33 Commission on Capital Budgeting and Planning in the
34 administration of the provisions of this act.

35 5. Bonds of the State of New Jersey are authorized to be
36 issued in the aggregate principal amount of \$350,000,000.00 for
37 the following purposes:

38 a. \$80,000,000.00 for the construction of higher education
39 buildings at the State colleges.

1 b. \$60,000,000.00 for the construction of higher education
buildings at Rutgers, the State University.

3 c. \$10,000,000.00 for the construction of higher education
buildings at the Agricultural Experiment Station of Rutgers, The
5 State University.

7 d. \$25,000,000.00 for the construction of higher education
buildings at the University of Medicine and Dentistry of New
Jersey.

9 e. \$20,000,000.00 for the construction of higher education
buildings at the New Jersey Institute of Technology.

11 f. \$25,000,000.00 for the construction of higher education
buildings at the county colleges.

13 g. \$20,000,000.00 for the construction of higher education
buildings at the private institutions of higher education.

15 h. \$45,000,000.00 to be allocated by the Board of Higher
Education for statewide and regional projects requiring the
17 planning and construction of higher education buildings at public
2and private² institutions of higher education.

19 i. \$44,000,000.00 toward the cost of the establishment and
construction of an expanded network of advanced technology
21 centers at the State's public and private institutions of higher
education which may include but are not limited to centers in:
23 agricultural biotechnology, based at the Cook College campus of
Rutgers University in New Brunswick; surface sciences
25 technology, with several of the State's public and private
institutions of higher education proposing to improve and link
27 existing research programs on their campuses; and materials
science/phonics, based at Princeton University.

29 j. \$21,000,000.00 toward the cost of the expansion and
construction of additional facilities at, and the acquisition of
31 additional and upgraded equipment for, existing advanced
technology centers, which may include but are not limited to: the
33 Center for Hazardous and Toxic Substance Management, based at
the New Jersey Institute of Technology in Newark; the John von
35 Neumann Center for Scientific Computing, based at the
Princeton Forrestal Center in Plainsboro; and the Center for
37 Computer Aids for Industrial Productivity, based at the Busch
Campus of Rutgers University in Piscataway.

39 k. The amounts authorized in subsections a. through j. of this

1 section are to be apportioned as indicated within a 5% range ¹;
2 however, there shall not be any apportionment between the funds
3 allocated to the Department of Higher Education and the New
4 Jersey Commission on Science and Technology¹.

5 l. The establishment, expansion, improvement, or equipping of
6 ¹[an] any¹ advanced technology center shall include a New Jersey
7 Commission on Science and Technology-approved plan to finance
8 a significant proportion of the center's construction and
9 operating costs from business, industry, and other non-state
sources.

11 m. Projects funded from the issuance and sale of bonds shall
12 follow the principles of affirmative action and equal opportunity
13 employment.

14 n. For any projects approved by the Board of Higher Education
15 which are financed by bond funds set forth in subsections a.
16 through f. of this section, the public institution of higher
17 education shall provide funds in support of such ²[project]
18 projects² in an amount equal to one-half the ²aggregate² amount
19 of bond funds allocated to the ²[project] projects².

20 o. For any projects approved by the Board of Higher Education
21 which are financed by bond funds set forth in subsection g. of this
22 section, ²[the] each² private ²[institutions] institution² of higher
23 education shall provide funds in support of such project ²or
24 projects² in an amount equal to the ²aggregate² amount of bond
25 funds allocated to the project ²or projects².

26 6. ²[These] The² bonds ²authorized under this act² shall be
27 serial bonds, term bonds, or a combination thereof, and shall be
28 known as "Jobs, Education and Competitiveness Bonds ²[.] ²"
29 ²[and they shall] They shall be issued from time to time as the
30 issuing officials herein named shall determine and may be issued
31 in coupon form, fully-registered form or book-entry form. The
32 bonds may² be subject to redemption prior to maturity and shall
33 mature and be paid not later than 35 years from the respective
34 ²[date] dates² of their issuance ²[but may be issued in whole or in
35 part for a shorter time. These bonds may be issued in coupon
form, fully registered form or book-entry form]².

36 7. The Governor, the State Treasurer and the Director of the
37 Division of Budget and Accounting in the Department of the
38 Treasury, or any two of these officials, herein referred to as "the
39

issuing officials," are authorized to carry out the provisions of this act relating to the issuance of bonds, and shall determine all matters in connection therewith ²₁ subject to the provisions of this act. ²[In case any of these] If an² issuing ²[officials shall be] official is² absent from the State or incapable of acting for any reason, the powers and duties of that issuing official shall be exercised and performed by the person authorized by law to act in an official capacity in the place of that issuing official.

8. Bonds issued in accordance with the provisions of this act shall be ²a² direct ²[obligations] obligation² of the State of New Jersey, and the faith and credit of the State are pledged for the payment of the interest ²and redemption premium² thereon ²[as it shall become], if any, when² due ²₁ and for the payment of the principal ²thereof² at maturity ²or earlier redemption date². The principal ²of² and interest ²[of] on² the bonds shall be exempt from taxation by the State or by any county, municipality or other taxing district of the State.

9. The bonds shall be signed in the name of the State by ²means of the manual or facsimile signature of² the Governor ²[or by his facsimile signature,]² under the Great Seal of the State, which seal may be by facsimile or by way of any other form of reproduction on the bonds, and attested by the manual or facsimile signature of the Secretary of State, or an ²[assistant] Assistant² Secretary of State, and shall be countersigned by the facsimile signature of the Director of the Division of Budget and Accounting in the Department of the Treasury and may be manually authenticated by an authenticating agent or bond registrar, as the issuing officials shall determine. Interest coupons, if any, attached to the bonds shall be signed by the facsimile signature of the ²[director] Director of the Division of Budget and Accounting in the Department of the Treasury². The bonds may be issued notwithstanding that ²[any of the officials] an official² signing them or whose ²manual or² facsimile signature appears on the bonds or coupons ²[cease] has ceased² to hold office at the time of ²[issue] issuance², ²or at the time of the delivery of the bonds to the purchaser ²thereof².

10. a. The bonds shall recite that they are issued for the purposes set forth in section 5 of this act ²[and] ²₁ that they are issued pursuant to this act, ²[and]² that this act was submitted to

1 the people of the State at the general election held in the month
2 of November, 1988 ²₁² and that ²[it] this act² was approved by a
3 majority of the legally qualified voters of the State voting
thereon at the election. This recital shall be conclusive evidence
5 of the authority of the State to issue the bonds and ²[of]² their
validity. Any bonds containing ²[that] this² recital shall ²₁² in
7 any suit, action or proceeding involving their validity ²₁² be
conclusively deemed to be fully authorized by this act and to
9 have been issued, sold, executed and delivered in conformity
herewith and with all other provisions of ²[statutes] laws²
11 applicable hereto, and shall be incontestable for any cause.

b. The bonds shall be issued in ²those² denominations and in
13 the form or forms, whether coupon, fully-registered or book
entry, and with or without provisions for interchangeability
15 thereof, as may be determined by the issuing officials.

11. When the bonds are issued from time to time, the bonds of
17 each issue shall constitute a separate series to be designated by
the issuing officials. Each series of bonds shall bear ²[the] such²
19 rate or rates of interest as may be determined by the issuing
officials, which interest shall be payable ²[as may be determined
21 by the issuing officials] semiannually; except that the first and
last interest periods may be longer or shorter, in order that
23 intervening semiannual payments may be at convenient dates².

12. ¹[a. All bonds the interest on which is not included in the
25 gross income of holders of those bonds under the "Internal
Revenue Code of 1986," 26 U.S.C. §1 et seq., or any subsequent
27 federal law,] The bonds¹ shall be issued and sold at ²the price or²
prices and under terms, conditions and regulations ²[,]² as the
29 issuing officials may prescribe, after notice of the sale, published
at least once in at least three newspapers published in ²[New
31 Jersey] this State², and at least once in a publication carrying
municipal bond notices and devoted primarily to financial news,
33 published in ²[New Jersey] this State² or in the city of New York
²[in the state of New York]², the first notice to appear at least
35 five days prior to the day of bidding. The notice of sale may
contain a provision to the effect that any ²[or all bids] bid² in
37 pursuance thereof may be rejected. In the event of rejection or
²[of]² failure to receive any acceptable bid, the issuing officials.
39 at any time within 60 days from the date of the advertised sale.

1 may sell the bonds at a private sale at ²such price or² prices and
under ²the² terms and conditions as the issuing officials may
3 prescribe. The issuing officials may sell all or part of the bonds
of any series as issued to any State fund or to the federal
5 government or any agency thereof, at a private sale, without
advertisement.

7 ¹[b. All bonds the interest on which is included in the gross
income of holders of those bonds under the "Internal Revenue
9 Code of 1986," 26 U.S.C. §1 et seq., or any subsequent federal
law, may be issued and sold at public or private sale at prices and
11 under the terms, conditions and regulations as issuing officials
may prescribe.]¹

13 13. Until permanent bonds are prepared, the issuing officials
may issue temporary bonds in ²[such] the² form and with ²[such]
15 those² privileges as to their registration and exchange for
permanent bonds as may be determined by the issuing officials.

17 14. The proceeds from the sale of the bonds shall be paid to
the State Treasurer ²[and shall] to² be held by the State
19 Treasurer in a separate fund, ²[and be] which shall be known as
the "Jobs, Education and Competitiveness Fund." The proceeds
21 of this fund shall be² deposited in ²[such] those² depositories as
may be selected by the State Treasurer to the credit of the fund
23 ²[, which fund shall be known as the "Jobs, Education and
Competitiveness Fund."].²

25 15. a. The moneys in the "Jobs, Education and
Competitiveness Fund" are specifically dedicated and shall be
27 applied to the ²[costs] cost² of the purposes set forth in section 5
of this act ²[, and all those moneys are appropriated for those
29 purposes, and none of those moneys] . However, no moneys in the
fund² shall be expended for those purposes, except as otherwise
31 authorized ²[in] by² this act ²,² without the specific
appropriation thereof by the Legislature, but bonds may be issued
33 as herein provided, notwithstanding that the Legislature ²[has
not] shall not have then² adopted an act making a specific
35 appropriation of any of the moneys. Any act appropriating
moneys from the "Jobs, Education and Competitiveness Fund"
37 shall identify the ²[specific]² project ²[or projects]² to be funded
²[with those] by the² moneys.

39 b. At any time prior to the issuance and sale of bonds under

1 this act, the State Treasurer is authorized to transfer from ²any²
2 available ²[money] moneys² in any fund of the treasury of the
3 State to the credit of the "Jobs, Education and Competitiveness
4 Fund ²[, "] " those² sums as the State Treasurer may deem
5 necessary. The sums so transferred shall be returned to the same
6 fund of the treasury ²of the State² by the State Treasurer from
7 the proceeds of the sale of the ²[¹next¹ series] first issue² of
bonds.

9 c. Pending their application to the purposes provided in this
act, the moneys in the "Jobs, Education and Competitiveness
11 Fund" may be invested and reinvested as are other trust funds in
the custody of the State Treasurer, in the manner provided by
13 law. Net earnings received from the investment or deposit of
²[the fund] moneys in the "Jobs, Education and Competitiveness
15 Fund"² shall be paid into the ¹["Jobs, Education and
Competitiveness Fund"] General Fund¹.

17 16. If any coupon bond ²[or],² coupon or registered bond is
lost, mutilated or destroyed, a new bond or coupon shall be
19 executed and delivered of like tenor, in substitution for the lost,
mutilated or destroyed bond or coupon, upon the owner furnishing
21 to the issuing officials evidence satisfactory to them of the loss,
mutilation or destruction of the bond or coupon ²[;],² the
23 ownership thereof ²[;],² and ²[the]² security, indemnity and
reimbursement for expenses connected therewith, as the issuing
25 officials may require.

17 17. The accrued interest ², if any,² received upon the sale of
the bonds shall be applied to the discharge of a like amount of
27 interest upon the bonds when due. Any expense incurred by the
issuing officials for advertising, engraving, printing, clerical,
29 authenticating, registering, legal or other services necessary to
carry out the duties imposed upon them by the provisions of this
31 act shall be paid from the proceeds of the sale of the bonds by
the State Treasurer, upon the warrant of the Director of the
33 Division of Budget and Accounting in the Department of the
Treasury, in the same manner as other obligations of the State
35 are paid.

37 18. Bonds of each series issued hereunder shall mature,
including any sinking fund redemptions, not later than the 35th
39 year from the date of issue of ²[the] that² series, and in ²[those]²

1 amounts as shall be determined by the issuing officials. The
issuing officials may reserve to the State by appropriate provision
3 in the bonds of any series the power to redeem any of the bonds
prior to maturity at the price or prices and upon the terms and
5 conditions as may be provided in the bonds.

19. The issuing officials may issue refunding bonds in an
7 amount not to exceed the amount necessary to effectuate the
refinancing of ²[all or]² any bonds issued pursuant to this act, at
9 any time and from time to time, for the purpose of refinancing
any bond or bonds issued pursuant to this act, subject to the
11 following provisions:

a. Refunding bonds may be issued at any time prior to the
13 maturity or redemption of the bonds to be refinanced thereby as
the issuing officials shall determine.

15 b. Each series of refunding bonds may be issued in a sufficient
amount to pay or to provide for the payment of the principal of
17 the bonds to be refinanced thereby, together with any redemption
premium thereon, any interest accrued or to accrue on the bonds
19 to be refinanced to the date of payment of the outstanding bonds,
the expense of issuing the refunding bonds and the expenses, if
21 any, of paying the bonds to be refinanced.

c. No refunding bonds shall be issued unless the issuing
23 officials shall first determine that the present value of the
aggregate principal ²amount² of and interest on the refunding
25 bonds is less than the present value of the aggregate principal
²amount² of and interest on the bonds to be refinanced thereby;
27 provided, for the purposes of this limitation, present value shall
be computed using a discount rate equal to the yield of those
29 refunding bonds, and yield shall be computed using an actuarial
method based upon a 360-day year with semiannual compounding
31 and upon the price or prices paid to the State by the initial
purchasers of those refunding bonds.

33 d. Any refinancing authorized hereunder may be effected by
the sale of the refunding bonds and the application of the
35 proceeds thereof to the immediate payment of the principal of
the bonds to be refinanced thereby, together with any redemption
37 premium thereon, any interest accrued or to accrue on those
bonds ²to be refinanced to the date of payment of those bonds²,
39 the expenses of issuing the refunding bonds and the expenses, if

1 any, of paying those bonds to be refinanced, or, to the extent not
3 required for that immediate payment, shall be deposited.
5 together with any other moneys legally available therefor, in
7 trust with one or more trustees or escrow agents, which trustees
9 or escrow agents shall be trust companies or national or state
11 banks having powers of a trust company, located either within or
13 without the State, to be applied solely to the payment when due
15 of the principal of, redemption premium, if any, and interest due
17 and to become due on the bonds to be refinanced on or prior to
19 the redemption date or maturity date thereof, as the case may
21 be. The proceeds or moneys so held by the trustees or escrow
23 agents may be invested in government securities, including
25 government securities issued or held in book-entry form on the
27 books of the Department of the Treasury of the United States
29 ²[of America]² ; provided ²[,]² those government securities shall
31 not be subject to redemption prior to their maturity other than at
33 the option of the holder thereof. Except as otherwise provided in
35 this subsection, neither government securities nor moneys so
37 deposited with the trustees or escrow agents shall be withdrawn
or used for any purpose other than, and shall be held in trust for,
the payment of the principal of, redemption premium, if any, and
interest on the bonds to be refinanced thereby; provided that any
cash received from the principal or interest payments on those
government securities deposited with the trustees or escrow
agents, to the extent the cash will not be required at any time for
²[the] that² purpose, shall be paid over to the trustees or escrow
agents, and to the extent the cash will be required for that
purpose at a later date, shall, to the extent practicable and
legally permissible, be reinvested in government securities
maturing at times and in amounts sufficient to pay when due the
principal of, redemption premium, if any, and interest to become
due on the bonds to be refinanced ²₁² on and prior to the
redemption date or maturity date thereof, as the case may be,
and interest earned from those reinvestments, to the extent not
required for the payment of bonds, shall be paid over to the
State, as received by the trustees or escrow agents.
Notwithstanding anything to the contrary contained herein:

(1) The trustees or escrow agents shall, if so directed by the

1 issuing officials, apply moneys on deposit with the trustees or
escrow agents pursuant to the provisions of this section ^{2,2} and
3 redeem or sell government securities so deposited with the
trustees or escrow agents ^{2,2} and apply the proceeds thereof to
5 (a) the purchase of the bonds which were refinanced by the
deposit with the trustees or escrow agents of the moneys and
7 government securities and immediately thereafter cancel all
outstanding bonds so purchased or (b) the purchase of different
9 government securities; provided ^{2[,]2} however, that the moneys
and government securities on deposit with the trustees or escrow
11 agents after the purchase and cancellation of the outstanding
bonds or the purchase of different government securities shall be
13 sufficient to pay when due the principal of, redemption premium,
if any, and interest on all other bonds in respect of which the
15 moneys and government securities were deposited with the
trustees or escrow agents on or prior to the redemption date or
17 maturity date thereof, as the case may be; and

(2) In the event that on any date, as a result of any purchases
19 and cancellations of the outstanding bonds or any purchases of
different government securities as provided in this subsection,
21 the total amount of moneys and government securities remaining
on deposit with the trustees or escrow agents is in excess of the
23 total amount which ²would² have been required to be deposited
with the trustees or escrow agents on that date in respect of the
25 remaining bonds for which such deposit was made in order to pay
when due the principal of, redemption premium, if any, and
27 interest on those remaining bonds, the trustees or escrow
agents ^{2[,]2} shall, if so directed by the issuing officials, pay the
29 amount of that excess to the State. Any amounts held by the
State Treasurer in a separate fund or funds for the payment of
31 the principal of ², redemption premium, if any,² and interest on
bonds to be refinanced, as provided herein, shall, if so directed by
33 the issuing officials, be transferred by the State Treasurer for
deposit with one or more trustees or escrow agents ^{2,2} as
35 provided herein ^{2,2} to be applied to the payment when due of the
principal of, redemption premium, if any, and interest to become
37 due on those bonds to be refinanced, as provided in this section,
or be applied by the State Treasurer to the payment when due of
39 the principal of ², redemption premium, if any,² and interest on

1 refunding bonds issued hereunder to refinance those bonds. The
2 State Treasurer is authorized to enter into ²[any contract or]²
3 contracts with one or more trust companies or national or state
4 banks, as provided herein, subject to the approval of the issuing
5 officials.

6 e. Notwithstanding the provisions of section 12 of this act, any
7 series of refunding bonds issued pursuant to this section shall
8 mature at any time or times not later than five years following
9 the latest scheduled final maturity date, determined without
10 regard to any redemptions prior thereto, of any of the bonds to be
11 refunded thereby, and in no event later than 35 years following
12 the date of issuance of that series of refunding bonds, and those
13 refunding bonds may be sold at public or private sale at prices
14 and under terms, conditions and regulations as the issuing
15 officials may prescribe. Refunding bonds shall be entitled to all
16 the benefits of this act and subject to all its limitations ²,²
17 except as to sale provisions and to the extent therein otherwise
18 expressly provided.

19 f. Upon the decision by the issuing officials to issue refunding
20 bonds pursuant to this section, and prior to the sale of those
21 bonds, the issuing officials shall transmit to the Joint Budget
22 Oversight Committee, or its successor, a report that a decision
23 has been made, reciting the basis on which the decision was
24 made, including an estimate of the debt service savings to be
25 achieved and the calculations upon which the issuing officials
26 relied when making the decision to issue refunding bonds. The
27 report shall also disclose the intent of the issuing officials to
28 issue and sell the refunding bonds at public or private sale and the
29 reasons ²[therefore] therefor².

30 g. The Joint Budget Oversight Committee, or its successor,
31 shall have authority to approve or disapprove the ²[sales] sale² of
32 refunding bonds as included in each report submitted in
33 accordance with subsection f. of this section. The committee ²[,
34 or its successor,]² shall notify the issuing officials in writing of
35 the approval or disapproval as expeditiously as possible.

36 h. No refunding bonds shall be issued unless the report has
37 been submitted to and approved by the Joint Budget Oversight
38 Committee, or its successor, as set forth in subsection g. of this
39 section.

1 i. Within 30 days after the sale of the refunding bonds, the
issuing officials shall notify the ²[committee] Joint Budget
3 Oversight Committee², or its successor, of the result of that
sale, including the prices and terms, conditions and regulations
5 concerning the refunding bonds, the actual amount of debt
service savings to be realized as a result of the sale of refunding
7 bonds, and the intended use of the proceeds from the sale of
those bonds.

9 j. The ²[committee] Joint Budget Oversight Committee², or
its successor, shall, however, review all information and reports
11 submitted in accordance with this section and may, on its own
initiative, make observations and recommendations to the issuing
13 officials, or to the Legislature, or both, as it deems appropriate.

20. Any bond or bonds issued hereunder shall no longer be
15 deemed to be outstanding, shall no longer constitute a direct
obligation of the State of New Jersey ²,² and the faith and credit
17 of the State shall no longer be pledged to the payment of the
principal of ², redemption premium, if any,² and interest on the
19 bonds, and the bonds shall be secured solely by and payable solely
from moneys and government securities deposited in trust with
21 one or more trustees or escrow agents, which trustees and escrow
agents shall be trust companies or national or state banks having
23 powers of a trust company, located either within or without the
State, as provided herein, whenever there shall be deposited in
25 trust with the trustees or escrow agents ²,² as provided
herein ²,² either moneys or government securities, including
27 government securities issued or held in book-entry form on the
books of the Department of Treasury of the United States ²[of
29 America]², the principal of and interest on which when due will
provide money which, together with the moneys, if any, deposited
31 with the trustees or escrow agents at the same time, shall be
sufficient to pay when due the principal of, redemption premium,
33 if any, and interest due and to become due on the bonds on or
prior to the redemption date or maturity date thereof, as the
35 case may be; provided ²[that]² the government securities shall
not be subject to redemption prior to their maturity other than at
37 the option of the holder thereof. The State of New Jersey hereby
covenants with the holders of any bonds for which government

1 securities or moneys shall have been deposited in trust with the
trustees or escrow agents as provided in this section that, except
3 as otherwise provided in this section, neither the government
securities nor moneys so deposited with the trustees or escrow
5 agents shall be withdrawn or used by the State for any purpose
other than, and shall be held in trust for, the payment of the
7 principal of, redemption premium, if any, and interest to become
due on the bonds; provided that any cash received from the
9 principal or interest payments on the government securities
deposited with the trustees or escrow agents, to the extent the
11 cash will not be required at any time for that purpose, shall be
paid over to the State ^{2,2} as received by the trustees or escrow
13 agents ^{2,2} free and clear of any trust, lien, pledge or assignment
securing the bonds; and to the extent the cash will be required for
15 that purpose at a later date, shall, to the extent practicable and
legally permissible, be reinvested in government securities
17 maturing at times and in amounts sufficient to pay when due the
principal of, redemption premium, if any, and interest to become
19 due on the bonds on and prior to the redemption date or maturity
date thereof, as the case may be, and interest earned from the
21 reinvestments shall be paid over to the State, as received by the
trustees or escrow agents, free and clear of any trust, lien or
23 pledge securing the bonds. Notwithstanding anything to the
contrary contained herein:

25 a. the trustees or escrow agents shall, if so directed by the
issuing officials, apply moneys on deposit with the trustees or
27 escrow agents pursuant to the provisions of this section ^{2,2} and
redeem or sell government securities so deposited with the
29 trustees or escrow agents ^{2,2} and apply the proceeds thereof to
(1) the purchase of the bonds which were refinanced by the
31 deposit with the trustees or escrow agents of the moneys and
government securities and immediately thereafter cancel all
33 bonds so purchased, or (2) the purchase of different government
securities; provided ^{2[,]2} however, that the moneys and
35 government securities on deposit with the trustees or escrow
agents after the purchase and cancellation of the bonds or the
37 purchase of different government securities shall be sufficient to
pay when due the principal of, redemption premium, if any, and
39 interest on all ²other² bonds in respect of which the moneys and

1 government securities were deposited with the trustees or escrow
agents on or prior to the redemption date or maturity date
3 thereof, as the case may be; and

b. in the event that on any date, as a result of any purchases
5 and cancellations of bonds or any purchases of different
government securities^{2,2} as provided in this ²[subsection]
7 sentence², the total amount of moneys and government
securities remaining on deposit with the trustees or escrow
9 agents is in excess of the total amount which would have been
required to be deposited with the trustees or escrow agents on
11 that date in respect of the remaining bonds for which the deposit
was made in order to pay when due the principal of, redemption
13 premium, if any, and interest on the remaining bonds, the
trustees or escrow agents shall, if so directed by the issuing
15 officials, pay the amount of the excess to the State^{2,2} free and
clear of any trust, lien, pledge or assignment securing the
17 refunding bonds.

21. Refunding bonds issued pursuant to section 19 of this act
19 may be consolidated with bonds issued pursuant to section 6 of
this act or with bonds issued pursuant to any other act for
21 purposes of sale.

22. To provide funds to meet the interest and principal
23 payment requirements for the bonds ²and refunding bonds² issued
under this act and outstanding, there is appropriated in the order
25 following:

a. Revenue derived from the collection of taxes under the
27 "Sales and Use Tax Act," P.L. 1966, c. 30 (C. 54:32B-1 et seq.),
or so much thereof as may be required; and

b. If, at any time, funds necessary to meet the interest²,
29 redemption premium, if any,² and principal payments on
31 outstanding bonds issued under this act ²[,]² are insufficient or
not available, there shall be assessed, levied and collected
33 annually in each of the municipalities of the counties of this
State, a tax on the real and personal property upon which
35 municipal taxes are or shall be assessed, levied and collected,
sufficient to meet the interest on all outstanding bonds issued
37 hereunder and on the bonds proposed to be issued under this act in
the calendar year in which the tax is to be raised and for the
39 payment of bonds falling due in the year following the year for

1 which the tax is levied. The tax shall be assessed, levied and
2 collected in the same manner and at the same time as ²are²
3 other taxes upon real and personal property. The governing body
4 of each municipality shall ²[pay to the] cause to be paid to the
5 county² treasurer of the county in which the municipality is
6 located, on or before December 15 in each year, the amount of
7 tax herein directed to be assessed and levied, and the county
8 treasurer shall pay the amount of the tax to the State Treasurer
9 on or before December 20 in each year.

10 If on or before December 31 in any year, the issuing officials,
11 by resolution, determine that there are moneys in the General
12 Fund beyond the needs of the State, sufficient to meet the
13 principal of bonds falling due and all interest ²and redemption
14 premium, if any,² payable in the ensuing calendar year, the
15 issuing officials shall file the resolution in the office of the State
16 Treasurer, whereupon the State Treasurer shall transfer the
17 moneys to a separate fund to be designated by ²[him] the State
18 Treasurer², and shall pay the principal ², redemption premium, if
19 any,² and interest out of that fund as the same shall become due
20 and payable, and the other sources of payment of the principal ²,
21 redemption premium, if any,² and interest provided for in this
22 section shall not then be available, and the receipts for the year
23 from the tax specified in subsection a. of this section shall be
24 considered ²and treated as² part of the General Fund, available
25 for general purposes.

26 23. Should the State Treasurer, by December 31 of any year,
27 deem it necessary, because of ²the² insufficiency of funds
28 collected from the sources of revenues as provided in this act, to
29 meet the interest and principal payments for the year after the
30 ensuing year, then the State Treasurer shall certify to the
31 Director of the Division of Budget and Accounting in the
32 Department of the Treasury the amount necessary to be raised by
33 taxation for those purposes, ²[which is] the same² to be assessed,
34 levied and collected for and in the ensuing calendar year. The
35 director shall, on or before March 1 following, calculate the
36 amount in dollars to be assessed, levied and collected in each
37 county as herein set forth. This calculation shall be based upon
38 the corrected assessed valuation of each county for the year
39 preceding the year in which the tax is to be assessed, but the tax

1 shall be assessed, levied and collected upon the assessed valuation
of the year in which the tax is assessed and levied. The director
3 shall certify the amount to the county board of taxation and the
treasurer of each county. The county board of taxation shall
5 include the proper amount in the current tax levy of the several
taxing districts of the county in proportion to the ratables ²as²
7 ascertained for the current year.

24. For the purpose of complying with the provisions of the
9 State Constitution, this act shall be submitted to the people at
the general election to be held in the month of November, 1988.
11 To inform the people of the contents of this act, it shall be the
duty of the Secretary of State, after this section takes effect,
13 and at least 15 days prior to the election, to cause this act to be
published in at least 10 newspapers published in the State and to
15 notify the clerk of each county of this State of the passage of
this act ²[,] ² and the clerks respectively, in accordance with the
17 instructions of the Secretary of State, shall have ²printed on²
each of the ballots ²[printed as follows] the following²:

19 If you approve ²of² the act entitled below, make a cross (X),
plus (+), or check (✓) mark in the square opposite the word "Yes."

21 If you disapprove ²of² the act entitled below, make a cross (X),
plus (+), or check (✓) mark in the square opposite the word "No."

23 If voting machines are used, a vote of "Yes" or "No" shall be
equivalent to these markings respectively.

JOBS, GROWTH AND COMPETITIVENESS BOND
ISSUE

YES. ²[Should] Shall² the "Jobs, Education and Competitiveness Bond Act of 1988 ^{2,2}" which authorizes the State to issue bonds in the amount of \$350,000,000.00 for the purpose of the construction, reconstruction, development, extension, improvement and equipment of classrooms, academic buildings, libraries, computer facilities and other higher education buildings at New Jersey's public and private institutions of higher education and the establishment and construction of advanced technology centers at public and private institutions of higher education, and for the expansion and construction of additional facilities at, and acquisition of additional and upgraded equipment for existing advanced technology centers sponsored by the New Jersey Commission on Science and Technology; and in a principal amount sufficient to refinance ²[all and]² any of the bonds if the same will result in a present value savings; and providing the ways and means to pay the interest on the debt and also to pay and discharge the principal thereof, be approved?

INTERPRETIVE STATEMENT

NO. Approval of this act would authorize the sale of \$350,000,000.00 in State ²general obligation² bonds to be used to construct, reconstruct, develop, extend, improve and equip classrooms, academic buildings, libraries, computer facilities and other higher education buildings at New Jersey public and private institutions of higher education, and establish and construct advanced technology centers at public and private institutions of higher education and for the expansion and construction of additional facilities at and acquisition of additional and upgraded equipment for existing advanced technology centers sponsored by the New Jersey Commission on Science and Technology. The act also authorizes the issuance of bonds in a sufficient amount to refinance ²[all or]² any of these bonds if the same will result in a present value savings.

The fact and date of the approval or passage of this act, as the case may be, may be inserted in the appropriate place after the title in the ballot. No other requirements of law ²of any kind or character² as to notice or procedure, except as herein provided, need be adhered to.

1 The votes cast for and against the approval of this act, by
2 ballot or voting machine, shall be counted and the result thereof
3 returned by the election officer, and a canvass of the election
4 had in the same manner as is provided for by law in the case of
5 the election of a Governor, and the approval or disapproval of
6 this act so determined shall be declared in the same manner as
7 the result of an election for a Governor, and if there is a majority
8 of all votes cast for and against it at the election in favor of the
9 approval of this act, then all the provisions of this act not made
effective theretofore shall take effect forthwith.

11 25. There is appropriated the sum of \$5,000.00 to the
12 Department of State for expenses in connection with the
13 publication of notice pursuant to section 24 of this act.

14 26. The Board of Higher Education and the New Jersey
15 Commission on Science and Technology shall both submit
16 ²[annually]² to the State Treasurer and the New Jersey
17 Commission on Capital Budgeting and Planning ²with their annual
18 budget requests² a plan for the expenditure of funds from the
19 "Jobs, Education and Competitiveness Fund" for the upcoming
20 fiscal year. These plans shall include the following information:
21 a performance evaluation of the expenditures made from the fund
22 to date; a description of programs planned during the upcoming
23 fiscal year; a copy of the regulations in force governing the
24 ²[operations] operation² of programs that are financed, in part or
25 in whole, by funds from the "Jobs, Education and
26 Competitiveness Fund;" and an estimate of expenditures for the
27 upcoming fiscal year.

28 27. Immediately following the submission to the Legislature of
29 the Governor's annual budget message, the Board of Higher
30 Education and the New Jersey Commission on Science and
31 Technology shall both submit to the relevant committees of the
32 Legislature as designated by the President of the Senate and the
33 Speaker of the General Assembly, and to the Joint Budget
34 Oversight Committee, or its successor, a copy of the plan called
35 for under section 26 of this act, together with such changes
36 therein as may have been required by the Governor's budget
37 message.

38 28. ²[No] Not² less than 30 days prior to entering into any
39 contract, lease, obligation, or agreement to effectuate the

1 purposes of this act, the Board of Higher Education and the New
2 Jersey Commission on Science and Technology, shall both report
3 to and consult with the Joint Budget Oversight Committee, or its
4 successor.

5 ²29. All appropriations from the "Jobs, Education and
6 Competitiveness Fund" shall be by specific allocation for each
7 major project, and any transfer of any funds so appropriated shall
8 require the approval of the Joint Budget Oversight Committee, or
9 its successor.²

10 ²[29] ³⁰². This section and sections 24 and 25 of this act shall
11 take effect immediately and the remainder of the act shall take
12 effect as ²and when² provided in section 24.

13
14
15 HIGHER EDUCATION
16 Science and Technology

17
18 Authorizes the "Jobs, Education and Competitiveness Bond Act
19 of 1988" to issue \$350 million in State bonds for construction and
20 renovation of higher education facilities, advanced technology
21 centers and related purposes.

ASSEMBLYMAN RODNEY P. FRELINGHUYSEN (Chairman): This is a public hearing on Assembly Bill No. 2768, the "Jobs, Education, and Competitiveness Bond Act of 1988," which authorizes the issuance of \$350 million in State bonds for higher education facilities and related purposes. This bill and public hearing have been appropriately -- public notices have been appropriately posted and delivered, and the hearing is now open.

Is there anyone here to testify on the bond issue? Any comments from Committee members?

ASSEMBLYMAN KELLY: I'd like to move it. There's no action here.

ASSEMBLYMAN FRELINGHUYSEN: I think all we have to do is have a public hearing. We don't actually move it, do we?

ASSEMBLYMAN WATSON: I move that the public hearing be closed.

ASSEMBLYMAN FRELINGHUYSEN: I'll read into the record Wayne Dibofsky of the New Jersey Education Association is in favor. And he doesn't appear to be here at the moment, but has requested he be listed as in favor of--

ASSEMBLYMAN KELLY: Who's against education?

ASSEMBLYMAN FRELINGHUYSEN: Wayne, would you like to testify? (upon witness entering committee room)

WAYNE DIBOFSKY: I'd love to. Thank you, this is most accommodating.

ASSEMBLYMAN KELLY: You're the only one who wants to talk.

ASSEMBLYMAN FRELINGHUYSEN: Wayne, good morning, you're welcome.

MR. DIBOFSKY: Good morning. Thank you, Mr. Chairman and members of the Committee. My name is Wayne Dibofsky, Associate Director of Government Relations for the New Jersey Education Association. It is my pleasure, in representing 124,000 members, to come before this august body and lend our

support to A-2768. The NJEA sees this as a continual phasing in of the needs to increase high technology facilities in the State of New Jersey for our institutions of higher education. We believe in order to keep New Jersey first in the educational components of growth, that this bill is a much needed bill to continue on that front. This will allow us to continue to fulfill a mission at our institutions, both public and private, of higher education to meet the needs of improvement, expansion, and retrofitting our buildings of higher education.

Assembly Bill A-2768, sponsored by Assemblyman Moran, would authorize the Jobs, Education and Competitiveness Bond Act of 1988 to raise \$350 million in State bonds for construction, renovation of higher educational facilities, continue advanced technology centers, and for other related educational purposes. Therefore, the New Jersey Education Association strongly supports the continued efforts to improve our State college system, we believe that if New Jersey is to continue to be a leader into the decade of the '90s and into the year 2000, we must continue to build a first-rate system of higher education. And therefore, we enthusiastically add our support to this legislation, and we thank you for the opportunity to testify publicly on it today. Thank you, Mr. Chairman.

ASSEMBLYMAN FRELINGHUYSEN: Thank you very much, Wayne. Anyone further to testify? Wendy?

UNIDENTIFIED MEMBER OF AUDIENCE: The Chancellor is on his way.

ASSEMBLYMAN FRELINGHUYSEN: The Chancellor is on his way. All right, we'll keep the public hearing open until he arrives.

ASSEMBLYMAN KELLY: Can't we suspend the hearing and go ahead with bills, then go back to the hearing?

ASSEMBLYMAN BAER: Yeah, why don't you do that so they stop the tape?

ASSEMBLYMAN FRELINGHUYSEN: Okay, if you can stop the tape, we're going to-- (Committee recesses public hearing and begins committee meeting)

RECESS

AFTER RECESS:

ASSEMBLYMAN FRELINGHUYSEN: Okay, now we will go back into the public hearing on Assembly Bill 2768. Chancellor, in your absence we suspended the public hearing and went on to our regular agenda. And the public hearing record is now open, if you care to come forward. I think this Committee has generally been very sympathetic towards the bond issue, but the law does require that we have a public hearing, so we certainly would recognize you again, if you wish to say something.

DR. T. E D W A R D H O L L A N D E R: If I can speak from here I appreciate your--

ASSEMBLYMAN FRELINGHUYSEN: You can't because actually this is a public record.

DR. HOLLANDER: (moves to microphone) I appreciate your holding the public hearing, and I very much appreciate your support of the \$350 million bond issue. And I'd be happy to respond to any questions you may have.

ASSEMBLYMAN FRELINGHUYSEN: Any questions from the Committee members? If not--

DR. HOLLANDER: That is a record shortest speech I've ever made in my entire life.

ASSEMBLYMAN BAER: Do you want to send anything to be filed in the hearing record? Can you do that with a constitutionally required hearing?

ASSEMBLYMAN FRELINGHUYSEN: Certainly. I think you can submit--

DR. HOLLANDER: Thank you. We'll send a statement for the record. Thank you.

ASSEMBLYMAN FRELINGHUYSEN: All right.

DR. HOLLANDER: Thank you.

ASSEMBLYMAN FRELINGHUYSEN: Thank you very much, Chancellor. Appreciate your taking the time this morning. Anyone else on the public question? I think the general rule is that if there are any comments for the public hearing they can be submitted in writing for a certain number of days hereafter. All right, if there'd be no further comments on the bond issue, then we close the public hearing.

(HEARING CONCLUDED)

APPENDIX



Wayne Dibofsky, Associate Director of Government Relations for the New Jersey Education Association before the Sub-Committee on Governmental Operations, Public Investments and Finance of the Assembly Appropriations Committee on Monday, June 13, 1988.

New Jersey, beginning in 1984, started on the road to economic revitalization by systematically joining advance technology research at its public and private institutions of higher education with industrial sponsorship in improving various technological facilities and programs at New Jersey's public and private institutions of higher education for purposes of economic development and the creation of new jobs. These efforts were highlighted by the construction of advanced technology centers, funded by the "Jobs, Science and Technology Bond Act of 1984," P.L. 1984, Chp. 99, as approved overwhelmingly by the New Jersey voters.

These new advanced technology centers and other academic centers represented but the first wave of activity in New Jersey which must be sustained through the decade of the 1990's and beyond, if New Jersey is to do its part to restore competitiveness and productivity to our nation. This will require the partnership of the public and private sectors, of the state and federal governments and of industry and higher education to expand New Jersey's investment in the future - in the technology - of providing needed new construction and growth.

In order to fulfill this mission New Jersey's public and private institutions of higher education must have adequate and modern facilities to provide for necessary educational and job training programs. To meet this demand Assembly Bill 2768, sponsored by Assemblyman Moran, would authorize the "Jobs, Education and Competitiveness Bond Act of 1988" to raise \$350 million in state bonds for construction and renovation of higher educational facilities, advance technology centers and for related educational purposes.

The New Jersey Education Association strongly supports continued efforts to improve our state college system. NJEA believes if New Jersey is to be a leader in the year 2000, we must have and continue to build a first-rate system of higher education. A-2768 helps fulfill that pledge.

Thank you.

TESTIMONY OF
CHANCELLOR T. EDWARD HOLLANDER
IN SUPPORT OF THE PROPOSED
JOBS, EDUCATION AND COMPETITIVENESS BOND ACT OF 1988
AT THE PUBLIC HEARING
HELD BY THE
ASSEMBLY APPROPRIATIONS SUBCOMMITTEE FOR
GOVERNMENTAL OPERATION, PUBLIC INVESTMENTS AND FINANCE
JUNE 13, 1988
10:00 A. M.

Mr. Chairman and members of the subcommittee, thank you again for this opportunity to present the proposed Jobs, Education and Competitiveness Bond Act of 1988 which we believe will help lead New Jersey's institutions of higher education into the 21st Century. This is a special occasion for us because it gives us a chance to thank each of you directly and the legislature broadly for your support of higher education over the years. Because of that support, our efforts at improving the quality and availability of our educational initiatives have gotten many in the nation to take notice of what is happening in New Jersey.

While state operating funding has increased to implement these programs, especially in recent years, capital funding has not. And the limited capital funding that has been available has been focused on the renewal and replacement of existing buildings and equipment rather than on the construction of new facilities.

This capital program is crucial to the future of higher education in New Jersey. The last general purpose bond issue for higher education was in 1971, when 218,000 students were enrolled in New Jersey's colleges and universities. Also in 1971, P.L. 1971, Chapter 12 implemented a capital program for the county colleges. As of 1987, enrollment has grown to 295,000. Although enrollments are predicted to drop during the next decade, by the year 2005, we expect to have close to 300,000 students attending our institutions.

In 1986, a national association compiled comparative physical-plant data, including gross square footage (SF) and full-time-equivalent enrollments (E), on a sample of colleges and universities. When compared with that data, New Jersey's current average of 135 SF/E falls 155 SF/E short of the national average of 290 SF/E. This capital program would increase New Jersey to 183 SF/E. Following are sector comparisons of SF/E:

	<u>National Comparison</u>	<u>Existing</u>	<u>%</u>	<u>With the Capital Program</u>	<u>%</u>
Rutgers	364	200	55	254	70
NJIT	447	199	45	359	80
UMDNJ	1,195	627	53	909	76
State Colleges	269	133	49	187	70
County Colleges	142	95	67	106	75

While the building program would not make New Jersey a national leader, it would help close the gap.

Our institutions have been making do in some instances with inadequate space, and the space that we do have is getting old. The maladies of overuse, deferred maintenance, and outdated technology have taken their toll. In 1971, no one could have anticipated the technological changes that have occurred during the 1980s. The technology of the '50s, '60s, and '70s no longer works for many of today's academic programs.

We have seen the positive impact of the Challenge for Excellence grants and the Jobs, Science, and Technology Bond Act of 1984. We have seen the success of Rutgers University's Fund for Distinction capital program on the recruitment of faculty and students and on fund-raising. It is now time to do more statewide.

The implementation of the bond-funding proposal would help us prepare today's young people for the 21st century. It would help the institutions recruit and retain students. It would help expand the New Jersey economy. In short, our competitiveness on a number of fronts would be enhanced. For example, we expect that bond funds proposed for the Agricultural Experiment Station would attract matching funds from the United States Department of Agriculture.

New Jersey's higher education institutions have identified new construction needs of \$1.1 billion over the next decade. The inventory of needs consists of academic projects totaling \$809 million and revenue-producing/grant-funded projects totaling \$329 million. Academic facilities include classrooms, laboratories, offices, and libraries, as well as operating and maintenance space. Revenue-producing facilities include residential space (housing and associated food-service facilities) and auxiliary enterprise space (athletic and recreational space, student centers, and parking). This proposal would fund more than half of the highest-priority academic projects. The remaining academic projects would be constructed over time, paid for by tuition-supported revenue bonds. The revenue-producing projects would continue to be funded with fee-supported revenue bonds.

Under this proposal, \$285 million in general obligation bond funding would be matched by \$130 million in institutional resources. The revenue sources for the institutional match would include tuition, fees, fund-raising, and, in the case of the county community colleges, county appropriations. This funding would be available to both public and private institutions and would be allocated as follows:

	BOND ISSUE	(\$000,000 INSTITUTIONAL MATCH	TOTAL
State Colleges	\$ 80	\$ 40	\$120
Rutgers	60	30	90
Agricultural Experiment Station	10	5	15
Statewide and Regional Projects	45	0	45
UMDNJ	25	12.5	37.5
NJIT	20	10	30
County Colleges	25	12.5	37.5
Independents	20	20	40
TOTAL	\$285	\$130	\$415

Rutgers, the University of Medicine and Dentistry of New Jersey, the New Jersey Institute of Technology, the state colleges, and the county community colleges would be required to match each dollar in bond funds with \$.50 in institutional resources. The independent institutions would be required to match bond funds dollar for dollar.

Certain conditions would be prerequisite to participating in the capital program. First, the boards of trustees would have to approve facilities master plans. Second, facilities audits would have to be completed to validate the need for both new construction and renewal/renovation projects. Funding to assist the institutions and to administer the capital program has been identified in the statewide and regional project category. Third, the facilities master plans would have to include a capital renewal and replacement plan that would eliminate deferred maintenance within the terms of the new construction plan. That is, institutions would have to demonstrate how they would take care of the capital assets they have before they would be authorized to participate in the higher education capital program. Fourth, the provision of a building reserve would assure that all new buildings would be maintained. And fifth, institutions would have to demonstrate a systematic approach to regular and preventive maintenance. Use of the state's maintenance management information system (or an acceptable equivalent) would satisfy this requirement.

Attached are handouts that summarize the major features of the bond proposal and the proposed project list.

I would be pleased to respond to any questions that you may have. Thank you again for your support of higher education.

**NEW JERSEY'S
HIGHER EDUCATION SYSTEM
SETS THE PACE**

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**HOW DO NEW JERSEY
COLLEGE AND UNIVERSITY
FACILITIES COMPARE NATIONALLY
IN TERMS OF SPACE ?**

DEPARTMENT OF HIGHER EDUCATION



SQUARE FEET PER STUDENT

	<u>NATIONAL COMPARISON</u>	<u>EXISTING</u>	<u>%</u>	<u>WITH THE CAPITAL PROGRAM</u>	<u>%</u>
RUTGERS	364	200	55	254	70
NJIT	447	199	45	359	80
UMDNJ	1,195	627	53	909	76
STATE COLLEGES	269	133	49	187	70
COUNTY COLLEGES	142	95	67	106	75

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GUIDING PRINCIPLES FOR THE CAPITAL BOND PROPOSALS

- **INSTITUTIONAL MATCH**
- **PRE-DETERMINED ALLOCATIONS**
- **UNANIMOUS AGREEMENT**
- **FACILITIES MASTER PLAN**
- **FACILITIES AUDIT**
- **MAINTENANCE RESERVE**
- **ELIMINATE DEFERRED MAINTENANCE**

JOBS, EDUCATION AND COMPETITIVENESS ACT OF 1988

● HIGHER EDUCATION	\$285.0 MILLION
● SCIENCE AND TECHNOLOGY	<u>\$ 65.0</u> MILLION
TOTAL	\$350.0 MILLION

HIGHER EDUCATION CAPITAL PROJECTS

(IN MILLIONS)

SENIOR PUBLIC INSTITUTIONS

● CLASSROOMS/OFFICE SPACE	\$103.0
● LIBRARIES	89.3
● LABORATORIES AND RESEARCH FACILITIES	89.0
● OTHER	11.2

COUNTY COMMUNITY COLLEGES	37.5
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INDEPENDENT COLLEGES & UNIVERSITIES	40.0
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CHILD CARE FACILITIES	15.0
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JOINT/REGIONAL PROJECTS	30.0
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DEPARTMENT OF HIGHER EDUCATION



HIGHER EDUCATION BOND FUND ALLOCATIONS

(IN MILLIONS)

	<u>BOND ISSUE</u>	<u>INSTITUTIONAL MATCH</u>	<u>TOTAL</u>
STATE COLLEGES	80.0	40.0	\$120.0
RUTGERS	60.0	30.0	90.0
AGRICULTURAL EXPERIMENT STATION	10.0	5.0	15.0
STATEWIDE AND REGIONAL PROJECTS	45.0	0.0	45.0
UMDNJ	25.0	12.5	37.5
NJIT	20.0	10.0	30.0
COUNTY COLLEGES	25.0	12.5	37.5
INDEPENDENTS	<u>20.0</u>	<u>20.0</u>	<u>40.0</u>
TOTAL	\$285.0	\$130.0	\$415.0

DEPARTMENT OF HIGHER EDUCATION



FUNDING SOURCES FOR INSTITUTIONAL MATCH

- FUND RAISING
- TUITION/FEES
- COUNTY APPROPRIATIONS
(COUNTY COMMUNITY COLLEGES ONLY)

**PROPOSED JOBS, EDUCATION AND
COMPETITIVENESS BOND ACT OF 1988**
CAPITAL PROJECTS GEOGRAPHIC DISTRIBUTION
(IN MILLIONS)

	<u>BOND FUNDS</u>	<u>REQUIRED INSTITUTIONAL MATCH</u>	<u>TOTAL</u>
NORTHERN NEW JERSEY	\$214.06	\$106.27	\$320.33
SOUTHERN NEW JERSEY	44.44	13.23	57.67
TO BE DETERMINED	<u>91.50</u>	<u>32.50</u>	<u>124.00</u>
TOTAL	<u><u>\$350.00</u></u>	<u><u>\$152.00</u></u>	<u><u>\$502.00</u></u>
 HIGHER EDUCATION	 \$285.00	 \$130.00	 \$415.00
COMMISSION ON SCIENCE AND TECHNOLOGY	<u>65.00</u>	<u>22.00</u>	<u>87.00</u>
TOTAL	<u><u>\$350.00</u></u>	<u><u>\$152.00</u></u>	<u><u>\$502.00</u></u>

DEPARTMENT OF HIGHER EDUCATION



HIGHER EDUCATION CAPITAL PROJECTS GEOGRAPHIC DISTRIBUTION (IN MILLIONS)

	BOND FUNDS	REQUIRED INSTITUTIONAL MATCH	TOTAL
NORTHERN NEW JERSEY	\$179.06	\$ 84.27	\$263.33
SOUTHERN NEW JERSEY	37.44	13.23	50.67
TO BE DETERMINED	68.50	32.50	101.00
TOTAL	<u>\$285.00</u>	<u>\$130.00</u>	<u>\$415.00</u>

HIGHER EDUCATION CAPITAL PROJECTS TO BE DETERMINED (IN MILLIONS)

	<u>BOND FUNDS</u>	<u>REQUIRED INSTITUTIONAL MATCH</u>	<u>TOTAL</u>
COUNTY COLLEGES	25.00	12.50	37.50
INDEPENDENTS	20.00	20.00	40.00
STATEWIDE/REGIONAL			
CAMPUS DAY CARE CENTERS	15.00	--	15.00
FUTURE PROJECTS	5.20	--	5.20
MASTER PLANS/AUDITS	3.00	--	3.00
PROGRAM ADMINISTRATION	<u>.30</u>	<u>--</u>	<u>.30</u>
TOTAL	68.50	32.50	101.00

DEPARTMENT OF HIGHER EDUCATION



**COMMISSION ON SCIENCE AND
TECHNOLOGY PROJECTS
GEOGRAPHIC DISTRIBUTION
(IN MILLIONS)**

	<u>BOND FUNDS</u>	<u>REQUIRED INSTITUTIONAL MATCH</u>	<u>TOTAL</u>
NORTHERN NEW JERSEY	\$35.00	\$22.00	\$57.00
SOUTHERN NEW JERSEY	7.00	--	7.00
TO BE DETERMINED	<u>23.00</u>	<u>--</u>	<u>23.00</u>
TOTAL	<u><u>\$65.00</u></u>	<u><u>\$22.00</u></u>	<u><u>\$87.00</u></u>

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CAPITAL RENEWAL AND REPLACEMENT POOL

\$45,000,000

DEBT SERVICE BY

STATE

\$30,000,000

INSTITUTIONS

\$15,000,000

DEPARTMENT OF HIGHER EDUCATION



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**THANK YOU FOR YOUR SUPPORT
AND YOUR SOUND INVESTMENT IN
NEW JERSEY STUDENTS OF
HIGHER EDUCATION**

DEPARTMENT OF HIGHER EDUCATION



FY1984-1988 TUITION RATES AVERAGE ANNUAL CHANGE

SECTOR	FY1984	FY1988	ANNUAL AVERAGE CHANGE		ANNUAL PER CREDIT AVERAGE CHANGE
			\$	%	
RUTGERS	\$1,490	\$2,130	\$128	8.6%	\$4.00
NJIT	1,596	2,364	154	9.6%	4.81
UMDNJ	6,825	8,250	285	4.2%	N/A
STATE COLLEGES*	1,024	1,403	76	7.4%	2.40
COUNTY COLLEGES**	700	940	48	6.9%	1.60

*AVERAGE FY1988

**COUNTY COLLEGE MAXIMUM

DEPARTMENT OF HIGHER EDUCATION



1961

FY1989 PROJECTED TUITION RATES*

PUBLIC SECTOR

	<u>PROJECTED FY1989</u>	<u>FY1989 INCREMENT</u>	<u>INCREASE PER CREDIT</u>
RUTGERS	\$2,279	\$149	\$4.66
NJIT	2,600	235	7.35
UMDNJ	8,828	578	N/A
STATE COLLEGES	1,531	128	4.00
COUNTY COLLEGES	990	50	1.67

*ASSUMES 7% INCREASE AT RUTGERS, UMDNJ, 10% INCREASE AT NJIT, 9% AVERAGE INCREASE AT STATE COLLEGES, AND 5% AT THE COUNTY COMMUNITY COLLEGES

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TUITION AID GRANT AWARDS

<u>SECTOR</u>	<u>AY1983-84 AWARDS</u>	<u>AY1987-88 AWARDS</u>	<u>PROJECTED AY1988-89 AWARDS</u>	<u>PROJECTED FULL-TIME STUDENTS AY1988-89</u>
COUNTY COLLEGES	11,439	8,160	7,890	37,200
STATE COLLEGES	11,534	10,400	10,720	36,400
INDEPENDENT COLLEGES	10,184	8,670	8,580	28,400
RUTGERS/NJIT/UMDNJ	10,148	9,870	10,110	31,500
OUT-OF-STATE COLLEGES	<u>1,145</u>	<u>0</u>	<u>0</u>	<u>N/A</u>
TOTAL	<u><u>44,450</u></u>	<u><u>37,100</u></u>	<u><u>37,300</u></u>	<u><u>133,500</u></u>

DEPARTMENT OF HIGHER EDUCATION



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TUITION AID GRANT EXPENDITURES

<u>SECTOR</u>	<u>AY1983-84 EXPENDED</u>	<u>AY1987-88 EXPENDED</u>	<u>PROJECTED AY1988-89 EXPENDED</u>
COUNTY COLLEGES	\$ 6,185,840	\$ 6,400,000	\$ 6,888,000
STATE COLLEGES	8,484,591	11,358,000	13,781,000
INDEPENDENT COLLEGES	12,942,009	19,483,000	21,523,000
RUTGERS/NJIT/UMDNJ	10,315,320	16,455,000	18,520,000
OUT-OF-STATE COLLEGES	<u>394,397</u>	<u>0</u>	<u>0</u>
TOTAL	<u><u>\$38,322,157</u></u>	<u><u>\$53,696,000</u></u>	<u><u>\$60,712,000</u></u>

DEPARTMENT OF HIGHER EDUCATION



IMPACT ON TUITION

<u>INSTITUTION</u>	<u>REQUIRED MATCH (IN MILLIONS)</u>	<u>TUITION INCREASE PER CREDIT PER YEAR FOR FIVE YEARS</u>
RUTGERS	\$35.0	0
UMDNJ	12.5	0
NJIT	10.0	.63
GLASSBORO	5.4	.60
JERSEY CITY	3.9	.64
KEAN	4.75	.30
MONTCLAIR	6.5	.39
RAMAPO	3.0	.23
STOCKTON	5.0	.65
TRENTON	6.15	.51
WM. PATERSON	5.3	.42

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IMPACT ON TUITION

<u>INSTITUTION</u>	<u>TUITION INCREASE PER CREDIT PER YEAR</u>	<u>TOTAL \$ PER YEAR*</u>	<u>5 YEAR TOTAL</u>
RUTGERS	\$0	\$ 0	\$ 0
UMDNJ	0	0	0
NJIT	.63	18.90	94.50
GLASSBORO	.60	18.00	90.00
JERSEY CITY	.64	19.20	96.00
KEAN	.30	9.00	45.00
MONTCLAIR	.39	11.70	58.50
RAMAPO	.23	6.90	34.50
STOCKTON	.65	19.50	97.50
TRENTON	.51	15.30	76.50
WM. PATERSON	.42	12.60	63.00

*30 CREDITS PER YEAR

DEPARTMENT OF HIGHER EDUCATION



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EXAMPLE
BASED UPON \$2-3 PER CREDIT
TUITION INCREASE

	1ST YEAR	5TH YEAR
REVENUE GENERATED	<u>\$60 - 90</u>	<u>\$300 - 450</u>
BOND ISSUE MATCH	\$15	\$75
AVAILABLE FOR OTHER COLLEGE NEEDS	<u>\$45 - 75</u>	<u>\$225 - 375</u>

DEPARTMENT OF HIGHER EDUCATION



Revised: 5/26/88
(This replaces all
previous lists.)

JOBS, EDUCATION AND COMPETITIVENESS BOND ACT OF 1988

PROPOSED PROJECT LIST¹

(BY INSTITUTION)²

(\$000,000)

<u>INSTITUTION</u>	<u>PROJECT³</u>	<u>BOND FUNDS</u>	<u>REQUIRED⁴ INSTITUTIONAL MATCH</u>	<u>TOTAL PROJECT COST</u>
RUTGERS THE STATE UNIVERSITY	New Brunswick Libraries	9.000	12.000	21.000
	Art Library Addition	2.500	2.250	4.750
	Newark Library	6.300	3.200	9.500
	Camden Library	4.933	2.467	7.400
	Mathematics Research Center	2.000	1.000	3.000
	Institute for Marine and Coastal Sciences-Phase I	6.000	3.000	9.000
	Gordon Road Facility	3.100	1.500	4.600
	Nelson Biology Renovation	9.000	15.300	24.300
	Behavioral Sciences Facility	4.000	2.000	6.000
	Alcohol Studies Facility	1.000	4.000	5.000
	Graduate School of Management Facility	2.000	4.800	6.800
	Utilities/Infrastructures	5.700	4.800	10.500
	Neuroscience Facility - Phase II	4.133	2.067	6.200
	Unassigned	<u>.334</u>	<u>0</u>	<u>.334</u>
	SUBTOTAL	60.000	58.384	118.384
	EXCESS MATCH	<u> </u>	<u>(28.384)</u>	<u>(28.384)</u>
	TOTAL	60.000	30.000	90.000

<u>INSTITUTION</u>	<u>PROJECT³</u>	<u>BOND FUNDS</u>	<u>REQUIRED⁴ INSTITUTIONAL MATCH</u>	<u>TOTAL PROJECT COST</u>
AGRICULTURAL EXPERIMENT STATION	Plant Science Facility	6.800	30.600	37.400
	Cook College Greenhouses	<u>3.200</u>	<u>1.800</u>	<u>5.000</u>
	SUBTOTAL	10.000	32.400	42.400
	EXCESS MATCH		<u>(27.400)</u>	<u>(27.400)</u>
	TOTAL	10.000	5.000	15.000
UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY	Health Sciences and Administration Building	16.000	26.000	42.000
	Classrooms and Office Renovations for the New Jersey Medical School/New Jersey Dental School	2.500	7.500	10.000
	Research Tower-Piscataway	5.000	32.630	37.630
	Stratford Operations/Support Space	<u>1.500</u>	<u>0</u>	<u>1.500</u>
	SUBTOTAL	25.000	66.130	41.130
	EXCESS MATCH		<u>(53.630)</u>	<u>(53.630)</u>
	TOTAL	25.000	12.500	37.500
NEW JERSEY INSTITUTE OF TECHNOLOGY	Academic Building	20.000	0	20.000
	Microelectronics Center (Addition)	0	7.000	7.000
	School of Architecture (Addition)	0	1.300	1.300
	Cullimore Hall Renovation	0	1.600	1.600
	Colton-Campbell-Weston Building Complex Renovations	<u>0</u>	<u>1.500</u>	<u>1.500</u>
	SUBTOTAL	20.000	11.400	31.400
	EXCESS MATCH		<u>(1.400)</u>	<u>(1.400)</u>
	TOTAL	20.000	10.000	30.000

<u>INSTITUTION</u>	<u>PROJECT³</u>	<u>BOND FUNDS</u>	<u>REQUIRED⁴ INSTITUTIONAL MATCH</u>	<u>TOTAL PROJECT COST</u>
GLASSBORO STATE COLLEGE	Library Addition	9.200	4.600	13.800
	Classroom/Office Addition	1.100	.550	1.650
	Underground Electrical Distribution System	.500	.250	.750
	TOTAL	10.800	5.400	16.200
JERSEY CITY STATE COLLEGE	Land Acquisition	1.067	.533	1.600
	Library Addition	2.837	1.419	4.256
	Classroom Building Renovation	2.354	1.177	3.531
	Computer Science Center	1.542	.771	2.313
	TOTAL	7.800	3.900	11.700
KEAN COLLEGE OF NEW JERSEY	Computer Center Addition	2.333	1.167	3.500
	Classroom Building	3.744	1.871	5.615
	Library: Alteration/Addition	3.423	1.712	5.135
	TOTAL	9.500	4.750	14.250
MONTCLAIR STATE COLLEGE	New Library Building	10.467	5.233	15.700
	Music Building Addition	.866	.434	1.300
	Campus Police/Receiving Building	.667	.333	1.000
	Campus Access Road	1.000	.500	1.500
	TOTAL	13.000	6.500	19.500

<u>INSTITUTION</u>	<u>PROJECT³</u>	<u>BOND FUNDS</u>	<u>REQUIRED⁴ INSTITUTIONAL MATCH</u>	<u>TOTAL PROJECT COST</u>
RAMAPO COLLEGE OF NEW JERSEY	Center for Communication Arts and Technologies	6.000	3.000	9.000
	TOTAL	6.000	3.000	9.000
STOCKTON STATE COLLEGE	Library Addition	5.935	4.094	10.029
	Arts and Environmental Science Building	4.065	2.803	6.868
	SUBTOTAL	10.000	6.897	16.897
	EXCESS MATCH		(1.897)	(1.897)
	TOTAL	10.000	5.000	15.000
TRENTON STATE COLLEGE	Performing Arts Building (Music)	0	5.850	5.850
	Reception & Office Building	0	2.750	2.750
	SUBTOTAL	0	8.600	8.600
	EXCESS MATCH		(2.450)	(2.450)
	SUBTOTAL	0	6.150	6.150
	Classroom Addition (Kendall Hall)	2.640	0	2.640
	Classroom Addition (Bray Hall)	3.210	0	3.210
	West Library-Addition	4.380	0	4.380
	Site Improvement-Utilities	1.960	0	1.960
	To Be Determined	.110	0	.110
	TOTAL	12.300	6.150	18.450

<u>INSTITUTION</u>	<u>PROJECT³</u>	<u>BOND FUNDS</u>	<u>REQUIRED⁴ INSTITUTIONAL MATCH</u>	<u>TOTAL PROJECT COST</u>
WILLIAM PATERSON COLLEGE OF NEW JERSEY	Library	5.467	2.733	8.200
	Computer Science Facility	5.133	2.567	7.700
	TOTAL	10.600	5.300	15.900
STATEWIDE & REGIONAL	Facility Master Plans/Audits	3.000	N/R ⁵	3.000
	Administration of Capital Program	.300	N/R ⁵	.300
	Advanced Communication Center, Classrooms and Support Space for the Northern/Central C.I.M. (NJIT and the County Colleges)	3.500	N/R ⁵	3.500
	Council of Higher Education of Newark (CHEN) Facility (Rutgers, UMDNJ, NJIT, and Essex County College)	5.000	N/R ⁵	5.000
	Technology Education Center: NJIT/Burlington CC	8.000	N/R ⁵	8.000
	Campus Day Care Centers	15.000	N/R ⁵	15.000
	Agricultural Experiment Station	5.000	N/R ⁵	5.000
	Future Projects	5.200	N/R ⁵	5.200
	TOTAL	45.000	0	45.000
COUNTY COLLEGES	To Be Determined	25.000	12.500	37.500
INDEPENDENTS	To Be Determined	20.000	20.000	40.000

<u>INSTITUTION</u>	<u>PROJECT³</u>	<u>BOND FUNDS</u>	<u>REQUIRED⁴ INSTITUTIONAL MATCH</u>	<u>TOTAL PROJECT COST</u>
COMMISSION ON SCIENCE AND TECHNOLOGY	Rutgers, The State University: Center for Agricultural Molecular Biology (AgBIOTECH)	17.000	6.000	23.000
	AgBIOTECH Satellite Extension/Field Testing Facility	3.000	N/A ⁶	3.000
	Center for Surface Processing	1.000	N/A ⁶	1.000
	Bivalve/Cape Shore Fisheries/ Aquaculture Facilities	2.000	N/A ⁶	2.000
	Subtotal	<u>23.000</u>	<u>6.000</u>	<u>29.000</u>
	New Jersey Institute of Technology: Center for Surface Processing	.750	N/A ⁶	.750
	Subtotal	<u>.750</u>	<u>0</u>	<u>.750</u>
	Camden County College: Camden CIM Center Equipment/ Expansion Fund	2.000	N/A ⁶	2.000
	Subtotal	<u>2.000</u>	<u>0</u>	<u>2.000</u>

<u>INSTITUTION</u>	<u>PROJECT³</u>	<u>BOND FUNDS</u>	<u>REQUIRED⁴ INSTITUTIONAL MATCH</u>	<u>TOTAL PROJECT COST</u>
COMMISSION ON SCIENCE AND TECHNOLOGY (Continued)	Princeton University: Photonics and Opto-Electronic Materials	10.000	16.000	26.000
	Center for Surface Processing	2.750	N/A ⁶	2.750
	Subtotal	<u>12.750</u>	<u>16.000</u>	<u>28.750</u>
	Stevens Institute of Technology: Center for Surface Processing	3.500	N/A ⁶	3.500
	Subtotal	<u>3.500</u>	<u>0</u>	<u>3.500</u>
	TO BE DETERMINED	<u>23.000</u>	<u>N/A⁶</u>	<u>23.000</u>
	TOTAL	<u>65.000</u>	<u>22.000</u>	<u>87.000</u>

S U M M A R Y

<u>INSTITUTION</u>	<u>BOND FUNDS</u>	<u>REQUIRED⁴ INSTITUTIONAL MATCH</u>	<u>TOTAL PROJECT COST</u>
Rutgers, The State University	60.000	30.000	90.000
Agricultural Experiment Station	10.000	5.000	15.000
University of Medicine and Dentistry of New Jersey	25.000	12.500	37.500
New Jersey Institute of Technology	20.000	10.000	30.000
Glassboro	10.800	5.400	16.200
Jersey City	7.800	3.900	11.700
Kean	9.500	4.750	14.250
Montclair	13.000	6.500	19.500
Ramapo	6.000	3.000	9.000
Stockton	10.000	5.000	15.000
Trenton	12.300	6.150	18.450
Wm. Paterson	10.600	5.300	15.900
Statewide Regional	45.000	0	45.000
County Community Colleges	25.000	12.500	37.500
Independents	<u>20.000</u>	<u>20.000</u>	<u>40.000</u>
Higher Education Projects	285.000	130.000	415.000
Commission on Science and Technology Projects	<u>65.000</u>	<u>22.000</u>	<u>87.000</u>
GRAND TOTAL	<u>350.000</u>	<u>152.000</u>	<u>502.000</u>

FOOTNOTES

1. All projects are subject to the approval of the Board of Higher Education or the Board of the Commission on Science and Technology. In all cases, projects shown are proposed and do not indicate final commitment.
2. \$258,500,000 of the \$350,000,000 is allocated to specific projects. The remaining \$91,500,000 (plus \$32,500,000 institutional match for a total of \$124,000,000) will be allocated to specific projects at a future date.
3. See Appendix for project descriptions.
4. For Department of Higher Education projects, public institutions are required to match each dollar of bond funds with \$.50 in institutional resources; Independent institutions are required to match bond funds dollar for dollar. For Commission on Science and Technology projects, institutional matches will be determined on a case by case basis according to a fund raising plan submitted by each applicant and approved by the Commission Board.
5. An institutional match is not required (N/R) in the Statewide/Regional Category.
6. The institutional match has not been finally determined and therefore is shown as not available (N/A) for several of the Commission on Science and Technology projects. An Institutional Match for two projects has been determined at this time: \$16 million for the Photonics/Opto-Electronic Materials Project at Princeton and \$6 million for the Center for Agricultural Molecular Biology at Rutgers.

APPENDIX

JOBS, EDUCATION AND COMPETITIVENESS BOND ACT OF 1988

PROPOSED PROJECT LIST

(BY INSTITUTION)²
(\$000,000)

PROJECT DESCRIPTIONS

<u>INSTITUTION</u>	<u>PROJECT</u>	<u>TOTAL PROJECT COST</u>	<u>DESCRIPTION</u>
RUTGERS, THE STATE UNIVERSITY	New Brunswick Library	\$ 21.000	A major expansion to the New Brunswick library system is needed to bring it up to the level of the first rank of public university research libraries in the country, thus supporting Rutgers' Excellence initiatives.
	Art Library Addition	\$ 4.750	An addition to the art library in Voorhees Hall will provide adequate space to house the expanding collection and permit more efficient use of the facility.
	Newark Library	\$ 9.500	An addition to Dana Library is required to provide additional stack and study space for the Newark Campus and for the growth of the computer support system.
	Camden Library	\$ 7.400	A building addition to the Camden Library will provide more space for the law and undergraduate collections.
	Mathematics Research Center	\$ 3.000	The Computer Science and Engineering building will be extended to make available additional space for a new mathematics research center.

PROJECT DESCRIPTIONS

<u>INSTITUTION</u>	<u>PROJECT</u>	<u>TOTAL PROJECT COST</u>	<u>DESCRIPTION</u>
RUTGERS, THE STATE UNIVERSITY (Continued)	Institute for Marine and Coastal Sciences (Phase I)	\$ 9.000	A new building is needed to accommodate the proposed Institute for Marine and Coastal Sciences. The Institute will conduct research related to pollution control and the maintenance of coastal estuaries and wetlands. It will also study New Jersey fisheries, including the revitalization of the oyster and hard clam industries.
	Gordon Road Facility	\$ 4.600	This allocation will enable the interior work begun on the Gordon Road building adjacent to Kilmer Campus to be completed. The building will be used as surge space for programs pending completion of permanent facilities.
	Nelson Biology Renovations	\$ 24.300	The Nelson Biology Building research laboratory facilities which were constructed in 1962 will be renovated in five stages to accommodate advanced instruction and research in biology and related fields. The renovations are also required to meet contemporary environmental health and animal care standards.
	Behavioral Science Facility	\$ 6.000	A new complex will be constructed to provide offices, laboratories, and clinical research space for the teaching and research activities of the Graduate School of Applied and Professional Psychology.
	Alcohol Studies Facility	\$ 5.000	A new facility is required to provide additional office space, library facilities and wet research laboratories. The building will house the new Division of Prevention and will relieve severe overcrowding in the premises currently occupied by the Center for Alcohol Studies.

PROJECT DESCRIPTIONS

<u>INSTITUTION</u>	<u>PROJECT</u>	<u>TOTAL PROJECT COST</u>	<u>DESCRIPTION</u>
RUTGERS, THE STATE UNIVERSITY (Continued)	Graduate School of Management Facility	\$ 6.800	A new building will be constructed to supplement Graduate School of Management facilities in Ackerson and Engelhard Halls. The additional space is needed to accommodate the outreach centers associated with the School and to provide larger classrooms and additional office space.
	Utilities/Infra- Structure	\$ 10.500	This allocation will fund the establishment of the utilities and other infrastructure required for the implementation of the campus master plans.
	Neuroscience Facility - Phase II	\$ 6.200	This project represents the complete development of the Neuroscience facility begun in an earlier phase of the Fund for Distinction Capital Program. It will provide offices, clinical space and animal care facilities for the research activities of the Center for Molecular and Behavioral Neuroscience.
AGRICULTURAL EXPERIMENT STATION	Plant Science Facility	\$ 37.400	The Plant Science Building will house the Departments of Plant Pathology, Horticulture and Crops, and Entomology. It will provide faculty office and laboratory space as well as research, library and classroom facilities.
	Cook College Greenhouses	\$ 5.000	The greenhouses are required to support the biotechnological and other research of the Plant Science instructional and research program.

PROJECT DESCRIPTIONS

<u>INSTITUTION</u>	<u>PROJECT</u>	<u>TOTAL PROJECT COST</u>	<u>DESCRIPTION</u>
UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY	Health Sciences and Administra- tion Building	\$ 42.000	The Martland Building has become too expensive to renovate. This replacement facility would include space for the School of Health Related Professions, University Hospital, New Jersey Medical School and various University administrative functions currently housed in the Martland Building and the temporary buildings of the administrative complex.
	Classrooms and Office Renovation for the New Jersey Medical School/New Jersey Dental School	\$ 10.000	New Jersey Medical School: Facility upgrade to recruit nationally prominent Department chairperson; New Jersey Dental School: Facility renovations to accommodate the shift from general practice instruction to specialized practice instruction and research, and to recruit nationally prominent Department chairperson.
	Research Tower- Piscataway	\$ 37.630	Construction of a second research tower to accommodate research and teaching at the Robert Wood Johnson Medical School in Piscataway.
	Stratford Operations/ Support Space	\$ 1.5000	Acquisition of a building to provide operations and support space for the School of Osteopathic Medicine.
NEW JERSEY INSTITUTE OF TECHNOLOGY	Academic Building	\$ 20.000	Construction of a new facility to provide both instruction and research space.
	Microelectronics Center	\$ 7.000	Construction of a four story addition to the existing electrical engineering building to provide space for the state sponsored chair in microelectronics and for related faculty in the Departments of Physics and Electrical Engineering.

PROJECT DESCRIPTIONS

<u>INSTITUTION</u>	<u>PROJECT</u>	<u>TOTAL PROJECT COST</u>	<u>DESCRIPTION</u>
NEW JERSEY INSTITUTE OF TECHNOLOGY (Continued)	School of Architecture	\$ 1.500	This addition to the School of Architecture is the final phase of its capital development. It will focus on the establishment of a more appropriate Information Center and upgrading/renovation of the existing gallery to include services to increase space utilization.
	Cullimore Hall Renovation	\$ 1.600	Renovations to accommodate the College of Science and Liberal Arts
	Colton-Campbell- Weston Building Complex Renovation	\$ 1.500	Renovations to accommodate Counseling, Placement, Academic Support Services and Student Professional Development. As these buildings are some of the oldest on campus, the scope of work must include compliance with current building codes. In areas requiring confidentiality, such as counseling and financial aid, private offices will be provided.
GLASSBORO STATE COLLEGE	Library Addition	\$ 13.800	The addition will consist of a two-story steel and masonry structure cantilevered above the existing structure. The addition will include an additional stack reading room and support space, faculty and administrative office space, data processing space, and media (AV only) space. A total of 80,000 square feet will be required.
	Classroom/Office Addition	\$ 1.650	The addition will consist of a one-story wing. This addition will include faculty offices, classroom and teaching lab, and a radio station. A total of 9,300 square feet will be required.

PROJECT DESCRIPTIONS

<u>INSTITUTION</u>	<u>PROJECT</u>	<u>TOTAL PROJECT COST</u>	<u>DESCRIPTION</u>
GLASSBORO STATE COLLEGE (Continued)	Underground Electrical Distribution System	\$.750	The college has installed a high voltage substation with underground wiring to the north side of the campus. Approval of this request will provide funding for the completion of this project as originally designed. This project is described in detail on the campus plan for the electrical distribution system.
JERSEY CITY STATE COLLEGE	Land Acquisition	\$ 1.600	The purchase of five acres of land adjacent to the college Facilities Building will provide building sites for the completion of the Campus Master Plan. The acquisition of this property also will consolidate separate campus building plots into one.
	Library Addition	\$ 4.256	The construction of a 45,000 square foot expansion to the library will provide needed reading space for students and faculty and enable the college to increase library holdings and services.
	Classroom Building Renovation	\$ 3.531	Grossnickle Hall is an academic building designed in the late fifties for the academic program of that era. A complete renovation of the building is necessary to provide instructional space for future academic programs. Renovation will include the upgrading of building systems to meet modern building codes.
	Computer Science Center	\$ 2.313	This project will provide an 8,000 square foot computer user center for students. The center will replace smaller existing rooms scattered in several campus locations.

PROJECT DESCRIPTIONS

<u>INSTITUTION</u>	<u>PROJECT</u>	<u>COST</u>	<u>DESCRIPTION</u>
KEAN COLLEGE OF NEW JERSEY	Computer Center Addition	\$ 3.500	A proposed addition to the Campus School South which would add 8 laboratories, 4 classrooms and 8 offices to the existing building. The proposed addition would add about 24,000 square feet. This would enable the college to overcome the existing deficit of space in computer science laboratory facilities and provide for some slight future expansion.
	Classroom Building	\$ 5.615	The college is proposing the construction of a new academic classroom building of approximately 40,000 square feet. The classroom building would contain 25 classrooms and various faculty offices.
	Library: Altera- tion/Addition	\$ 5.135	This project is part of the college plan to expand and modernize the existing library. The current library space deficit is approximately 53,700 square feet. The proposal would provide an additional of 36,000 square feet of space. The addition is required to provide adequate seating and study space and to permit expansion of the library collection.

PROJECT DESCRIPTIONS

<u>INSTITUTION</u>	<u>PROJECT</u>	<u>COST</u>	<u>DESCRIPTION</u>
MONTCLAIR STATE COLLEGE	New Library Building	\$ 15.700	Construction of a new 130,000 gross square foot building to accommodate the library needs for the campus. The existing 60,000 gross square foot library building will be renovated to meet the majority of the remaining space needs on the campus. The college has been designated as a "Center for Influence" in the Arts. This designation recognizes the quality of the music, fine arts, dance and theater faculty. In order to achieve full value as an arts center, substantial improvements in facilities are required not only in the teaching area, but in public service functions.
	Music Building Addition	\$ 1.300	The renovation to the existing library building will not accommodate the specialized needs of the Department of Music. This project would add a small addition to the existing Music and Fine Arts Building.
	Campus Police/ Receiving Building	\$ 1.000	Police office and support areas will be relocated near the new parking garage to provide better control of the garage. The central receiving will allow its present space within the maintenance building to be assigned to maintenance, thereby relieving an existing space shortage.
	Campus Access Road	\$ 1.500	A new access road will be constructed directly into the north parking lots. Because the existing topography is steep, construction costs will be relatively high, but are more than compensated for by avoidance of accidents to staff. In addition, a more direct route for students into the north lots will be provided.

PROJECT DESCRIPTIONS

<u>INSTITUTION</u>	<u>PROJECT</u>	<u>PROJECT COST</u>	<u>DESCRIPTION</u>
RAMAPO COLLEGE OF NEW JERSEY	Center for Communication Arts and Technologies	\$ 9.000	Present facilities are inadequate for faculty, equipment, instruction, work and display for programs in radio, television, communications, expressive arts and sculpture. Providing this space would consolidate activities now in three different buildings.
STOCKTON STATE COLLEGE	Library Addition	\$ 10.029	This addition is required to provide needed stack and study space and services. Without an addition, the library will have to continue sacrificing study space for the growing collection. This project entails expanding the library by 64,000 square feet. The addition will contain stack, study and service space, will expand existing audio/video production and services, and will provide a public exhibition space, a multipurpose lecture room, a college archive and special collection room, and a computer skills and skills reinforcement center.
	Arts and Environmental Sciences Building	\$ 6.868	The project consists of construction of a 37,000 square foot arts and environmental science building, plus the renovation of existing art studios and science labs. Part of the existing arts and science space will be renovated into classrooms and computer lab space. The new facility will provide studios for the visual arts and labs for the environmental and field science programs.

PROJECT DESCRIPTIONS

<u>INSTITUTION</u>	<u>PROJECT</u>	<u>PROJECT COST</u>	<u>DESCRIPTION</u>
TRENTON STATE COLLEGE	Performing Arts Building (Music)	\$ 5.850	Construction of a new facility for the Department of Music consisting of approximately 35,000 square feet containing department and facility offices, classrooms, music practice rooms for individuals, small groups and large groups, music library, instrument storage and a recital hall.
	Reception and Office Building	\$ 2.750	Construct a new facility of 25,000 square feet to accommodate the functions of admissions, reception, foundation, executive and college relations offices.
	Classroom Addition (Kendall Hall)	\$ 2.640	Construct an addition to Kendall Hall to accommodate the storage and production needs of the Theatre Department. This project will provide new space in which to provide instruction in all the aspects of theatre which presently are not available at the college.
	Classroom Addition (Bray Hall)	\$ 3.210	Construct an addition to Bray Hall in order to provide additional space to house the School of Education. This project will include sufficient facilities to support the new faculty and administrative office, instructional classrooms and class-laboratory rooms and support space.
	West Library- Addition	\$ 4.380	Construct an addition and renovate the Library, adding 40,000 square feet of space containing new open stack, reading rooms, preparation rooms, library science rooms, and automated reference and bibliography search rooms.
	Site Improvement- Utilities	\$ 1.960	Construct the site improvements necessary to support the construction of the new Music, Continuing Education Center and the Reception and Office Building.

PROJECT DESCRIPTIONS

<u>INSTITUTION</u>	<u>PROJECT</u>	<u>PROJECT COST</u>	<u>DESCRIPTION</u>
WILLIAM PATERSON COLLEGE OF NEW JERSEY	Library	\$ 8.2000	The project entails development of a 65,000 square foot library facility with adequate equipment and utilities to support student and faculty demands and developments in information science. The project includes offices, stack, study and related spaces.
	Computer Science Facility	\$ 7.700	The lack of capital construction funds has necessitated the location of academic and administrative computing in a facility (constructed in the late 1800s) which is inadequate for academic and administrative functions in size and support. The project is a 50,000 square foot facility designed to accommodate academic and administrative computing facilities including labs, teaching spaces and offices.
STATEWIDE & REGIONAL	Facility Master Plans/Audits	\$ 3.000	Completion or updating of campus facility master plans.
	Administration of Capital Program	\$.300	Administration and monitoring of the Jobs, Education and Competitiveness Bond Act of 1988
	Northern/Central Computer Integrated Manufacturing Facility	\$ 3.500	Additional support for the Northern/Central Computer Integrated Manufacturing facility for the interinstitutional, two-and-four year manufacturing education. Funding is requested for support facilities not included in the original budget request, such as use of the Advanced Communications Center, lecture halls, and other general support spaces.

PROJECT DESCRIPTIONS

<u>INSTITUTION</u>	<u>PROJECT</u>	<u>PROJECT COST</u>	<u>DESCRIPTION</u>
STATEWIDE & REGIONAL (Continued)	Council of Higher Education Facility (CHEN)	\$ 5.000	A joint venture by CHEN for a 40,000 square foot capital project to provide interinstitutional student and food services, a bookstore, day care services, a conference center, and headquarters for a corporation formed to support research and development activities of four institutions.
	Technology Education Center	\$ 8.000	The second stage in the building process of the NJIT/Burlington Technology Center to provide interinstitutional engineering and manufacturing technology education to meet the needs of industry and to promote economic development in Southern New Jersey.
	Campus Day Care Centers	\$ 15.000	In response to the increasing number of single parents attending New Jersey colleges and universities, this request supports the establishment of campus day care facilities at institutions throughout the state. Colleges participating in the newly developed REACH program provide one example of institutions that may require additional facilities to accommodate the children of newly registered students. Both construction (primarily additions) and renovation projects would be considered.
	Agricultural Experiment Station	\$ 5.000	Several projects as follows: Field Crop Center .500 Oyster Research Center .050 Coastal Studies Center 1.175 Postharvest Research Center 1.745 Agricultural Research Center 1.530

PROJECT DESCRIPTIONS

<u>INSTITUTION</u>	<u>PROJECT</u>	<u>PROJECT COST</u>	<u>DESCRIPTION</u>
COMMISSION ON SCIENCE AND TECHNOLOGY	Center for Agricultural Molecular Biology (AgBIOTECH)	\$ 23.000	<p>The Center for Agricultural Molecular Biology (AgBIOTECH) facility at Rutgers' Cook College will ensure New Jersey a leadership role in the development and introduction of scientific plant and animal breeding techniques -- the biotechnology of agriculture -- to the farm. Molecular biology and plant cell culture techniques will ultimately permit the incorporation of specific genes which confer special properties such as disease- and insect-resistance or herbicide tolerance. As a major part of its activity, and through its close association with the research resources of the Agricultural Experiment Station and its network of county agents, the AgBIOTECH Center will provide New Jersey's farmers with the latest biotechnology methods for increasing and safeguarding yield and quality, while reducing the need for costly chemical pesticides and fertilizers. Rutgers will contribute \$6 million of the required funding.</p>
	AgBIOTECH Satellite Extension/Field Testing Facility	\$ 3.000	<p>Research at AgBIOTECH will result in advanced agricultural products with disease and pest resistance characteristics which will increase the competitiveness of our farming community. Before these new products can be widely adopted, however, they must be thoroughly tested under strict control, and their characteristics must be carefully monitored, using advanced molecular techniques. To facilitate this testing in an environmentally safe manner, the Commission proposes to construct a satellite extension laboratory of the Center for Agricultural Molecular Biology, most probably located adjacent to the AES field station in Centerton, Salem County, to perform biological impact assessment.</p>

PROJECT DESCRIPTIONS

<u>INSTITUTION</u>	<u>PROJECT</u>	<u>PROJECT COST</u>	<u>DESCRIPTION</u>
COMMISSION ON SCIENCE AND TECHNOLOGY (Continued)	Center for Surface Processing	\$ 8.000	Project would expand the Commission's current efforts in the field of surface sciences. The Consortium for Surface Processing (NJIT, Rutgers, Princeton, Stevens Institute, and SRI-Sarnoff (an industrial research firm)) have proposed a distributed Advanced Technology Center which networks user facilities at each of the participating institutions. The proposal builds on four years of funding, totalling more than \$4 million which the Commission has invested through its Innovation Partnership Grant Program in Surface Sciences.
	Bivalve/Cape Shore Fisheries/ Aquaculture Facilities	\$ 2.000	In 1985 the Commission established the Technology Extension (TEX) Center for Fisheries Development and Aquaculture. The TEX Center is based at Cook College in New Brunswick; however, much of its practical extension and research activity is conducted out of the Bivalve-Cape Shore Field Station of the New Jersey Agricultural Experiment Station (AES). In its initial stages, the TEX Center has concentrated, with some success, on finding a solution to the problem of parasitic contamination of New Jersey's oyster fisheries. However, the TEX Center is actively planning to broaden its activities, to serve all fishing and aquaculture sectors in the state. To support the increased extension activities of the TEX Center, the current marine science facilities at the Bivalve-Cape Shore Field Station must be expanded to include modern oyster hatchery facilities, a bay-worthy research vessel,

PROJECT DESCRIPTIONS

<u>INSTITUTION</u>	<u>PROJECT</u>	<u>PROJECT COST</u>	<u>DESCRIPTION</u>
COMMISSION ON SCIENCE AND TECHNOLOGY (Continued)	Bivalve/Cape Shore Fisheries/ Aquaculture Facilities (Continued)		renovations to the oyster culture laboratories to include salt water service, and a demonstration and testing facility for finfish, crustacean, and mollusk cultivation.
	Camden CIM Center Equipment/ Expansion Fund	\$ 2.000	<p>The construction of the Camden CIM Center was funded under the Jobs, Science and Technology Bond Act of 1984. The Camden CIM Center is a regional program, working in conjunction with county colleges throughout that portion of the state. This unique teaching facility will have 38,000 square feet of shop and office space. When this "training factory of the future" begins offering courses in September of 1988, students will learn how to manage the entire manufacturing process -- from design and ordering of materials, to inspection, packing and shipping -- through computer integrated technologies.</p> <p>Since the inception of the program, its leadership has indicated that the funds allocated were insufficient to provide the full immediate, much less anticipated upgrades in equipment. Given the anticipated impact of these technologies on manufacturing and materials handling in the 1990s, the Commission recommends that an additional, strategic investment in this facility to maintain a state-of-the-art industry standard, both in terms of minimizing equipment obsolescence and maximizing space efficiency.</p>

PROJECT DESCRIPTIONS

<u>INSTITUTION</u>	<u>PROJECT</u>	<u>PROJECT COST</u>	<u>DESCRIPTION</u>
COMMISSION ON SCIENCE AND TECHNOLOGY (Continued)	Photonics and Opto-Electronic Materials (POEM)	\$ 26.000	This project would establish a Center in Photonics and Opto-Electronic Materials (POEM) at Princeton University. This Center is part of a broad initiative which is intended to position Princeton University as a leader in the advanced materials field. Princeton would contribute \$16 million of the required funding. The University is actively seeking the recruitment of a nationally-recognized expert to direct the POEM. With this leadership and the recruitment of several senior researchers, the Center would provide an infrastructure which would permit investigators to effectively compete for federal support. Industry has expressed strong interest in the establishment of such a Center at Princeton University.

