

1980

(1)

SECRETARY'S REPORT

It is my pleasure to welcome our Alumni to Thompson Park, Jamesburg, New Jersey on the ninth annual reunion of the Association. On behalf of the President, the Executive Committee and the Association I extend sincere thanks to the reunion committee for arranging the reunion.

This year the new Executive Committee takes over the charges of the Association. We, the outgoing Executive Committee along with all the Alumni extend our congratulations to the new group and hope their efforts will make the association more worthwhile and meaningful. It was a pleasure to work with the association for the last two (2) years and we thank our alumni for giving us this opportunity.

We put our best effort to communicate with alumni in time in order to have a large and active participation in the reunion. But unavailability of correct addresses of the alumni makes our work more difficult and sometimes frustrating. We believe all alumni would take an opportunity of renewing friendship with fellow alumni and would like to enjoy a day filled with fun and activities along with their families. Last year the reunion was a great success and very enjoyable. We hope we will have a large participation this year.

I would like to extend my thanks to the Association of Indians at Rutgers without whose assistance this years reunion could not have been held at this location.

On behalf of the President, the Executive Committee, I extend my sincere thanks to all other alumni for their cooperation and help. I think we all want to see a more stronger, active, and meaningful association in the near future.

Thank you all,



Asok Datta (C.E. '65)
General Secretary
BECA (EAST COAST)

BECA (East Coast)

New York

Executive Committee 1980-81, 1981-82

President	Amit Bannerjee	(CE '52)	(516)	007-5080
Ex Vice President	Suhas Chowdhuri	(CE '57)	(201)	322-9282
Vice President	D B Ganguly	(CE '45)	(609)	772-1959
	Asish Sengupta	(CE '53)	(201)	433-6245
	Sankar Basu	(EE '55)	(201)	752-6779
	Paritosh Ghatak	(CE '60)	(215)	691-8631
Secretary	Prabal Bannerjee	(CE '68)	(212)	937-9457
	Asok Das	(CE '69)	(201)	432-6979
Treasurer	Asok Datta	(CE '65)	(212)	457-7280
	Asok Chakraborty	(CE '70)	(212)	328-0093
Members	Probhat Mukherjee	(ME '50)	(516)	649-9743
	Subhendu Nath	(EE '54)		
	Dhiraj Chanda	(CE '56)		
	Sakti Nandi	(CE '57)	(516)	735-5256
	Supriya Sen	(CE '57)	(617)	767-2961
	Asim Mandal	(CE '62)	(201)	451-3436
	Saroj Bhol	(CE '65)	(201)	257-5939
	Amitava Chatterjee	(CE '65)	(201)	398-5548
	Tarun Bose	(CE '67)	(609)	784-7009

REGIONAL REPRESENTATIVES

Connecticut	Amitava Sarkar	(CE '69)		
Pennsylvania	A. K. Deb	(CE '57)	(215)	692-3030
	Arun Mazumdar	(CE '58)	(215)	777-2228
Maryland/ Virginia	Debabrata Bhatta- cherjee	(ME '59)		
Massachusetts	C. K. Sarkar	(CE '51)	(617)	682-5290
	Muktilal Das	(CE '61)	(617)	685-3779
Vermont	Arup Bhattacharjee	(MET '60)		
New Jersey	Dilip Ghosh	(CE '62)		
	Sibaprasad Sarkar	(EE '62)		
	Biman Bhatta	(CE '65)		
	Sisir Biswas	(CE '66)		
New York	Shyamal Lahiri	(MET '61)		
	Asok Biswas	(EE '68)		

CHIEF CO-ORDINATOR

SUSARMA GUPTA (CE '53)

3

BENGAL ENGINEERING COLLEGE ALUMNI ASSOCIATION
(EAST COAST)

Tenth Annual Reunion

August 22, 1981

United Methodist Church

Bayside, New York

CONTENTS

1. Program
2. Office Bearers - Executive Committee
3. Office Bearers - Reunion Committee
4. Joint Secretary's Report and attachments
5. Financial Statement
6. Name and Address of Alumni Members
7. List of Alumni Members with unknown address

4



**b.e. college
alumni association
of u.s.a. & canada
east coast**

**1th annual reunion
August 7th 1982,
Johnson park n.j**

S. E. COLLEGE ALUMNI ASSOCIATION OF U.S.A. & CANADA

ONE 201 592-1346

East Coast

61 RAY AVENUE
LEONIA, NEW JERSEY 07605

1982 (5)

EXECUTIVE COMMITTEE

PRESIDENT	AMIT BANERJEA	(CE'52)	(516)	997-5080
EX. VICE PRESIDENT	SUHAS CHOUDHURY	(CE'57)	(201)	322-9282
VICE PRESIDENT	D. P. GANGULY	(CE'45)	(609)	772-1939
	ASISH SENGUPTA	(CE'53)	(201)	433-6245
	SUBHENDU NATH	(EE'54)	(201)	256-7667
	PARITOSH GHATAK	(CE'60)	(215)	691-8681
GENERAL SECRETARY	SHIBAPRASAD SIRCAR	(EE'62)	(201)	592-1346
TREASURER	ASOKE CHAKRABARTY	(CE'70)	(201)	338-6181
	ASOK DATTA	(CE'65)	(201)	328-0093
MEMBERS	DHIRAJ CHANDA	(CE'56)	(609)	587-7946
	SAKTI NANDI	(CE'57)	(516)	735-5256
	SAROJ BHOL	(CE'65)	(201)	257-5939
	AMITAVA CHATTERJEE	(CE'67)	(201)	398-5548
	DEBAPRASAD SHOM	(ME'58)	(201)	694-8030
	MADAN MOHAN ROY	(EE'53)	(203)	877-1516
	ASIM MANDAL	(CE'62)	(201)	451-3436
	TARUN BOSE	(CE'67)	(609)	784-7009
CO-ORDINATOR	SUSANTA GUPTA	(CE'53)	(212)	886-2670

REGIONAL REPRESENTATIVES

MARYLAND/ VIRGINIA	D. BHATTACHARJEE	(ME'59)
PENNSYLVANIA	A. K. DEB	(CE'57)
	A. MAZUMDAR	(CE'58)
MASSACHUSETTS	C. K. SARKAR	(CE'51)
VERMONT	A. BHATTACHARJEE	(MET'60)
NEW JERSEY	D. GHOSH	(CE'62)
	B. BHATTA	(CE'65)
NEW YORK	S. LAHIRI	(MET'61)
	A. BISWAS	(EE'68)

E. COLLEGE ALUMNI ASSOCIATION OF U.S.A. & CANADA

572-1346

East Coast

61 RAY AVENUE
LEONIA, NEW JERSEY 07605

(6)

ELEVENTH ANNUAL REUNION

AUGUST 7, 1982

JOHNSON PARK

NEW BRUNSWICK, NEW JERSEY.

P R O G R A M

1:30 A.M.	ASSEMBLE AT JOHNSON PARK, GROVE # 3 NEW BRUNSWICK, NEW JERSEY.
2:00 A.M.	TEA AND SNACKS.
3:30 A.M.	SPORTS AND ATHLETICS
4:00 A.M.	LUNCH
2:00 P.M.	BECAA GENERAL MEETING
4:00 P.M.	TEA
5:00 P.M.	PRIZE DISTRIBUTION
5:15 P.M.	MAGIC SHOW
6:00 P.M.	VARIETY ENTERTAINMENT
6:30 P.M.	BENGALI DANCE DRAMA
7:15 P.M.	BENGALI MOVIE

OF U.S.A. & CANADA

PHONE: 201 592-1346

East Coast

61 RAY AVENUE
LEONIA, NEW JERSEY 07605

STATEMENT OF ACCOUNT AS OF JULY 31 1983

7

INCOME:

1983

1. Balance from previous year (1982)	\$ 840.11
2. General subscription	\$ 1230.00
3. Scholarship Fund	\$ 2362.00
4. Interest Income	\$ 19.15
5. Dividends	\$ 420.00
6. Misc.	\$ 5.00

Total: \$ 4876.26

EXPENDITURE:

1. Food	\$ 390.71
2. Entertainment (Incl. rent of hall)	\$ 345.00
3. Postage, Stationery	\$ 494.18
4. Misc.	\$ 2.01
5. Purchase of Bond	\$ 3283.50
6. Cash at hand	\$ 360.86

Total: \$4876.26

Detailed figure available upon request

Asok Kumar Chakrabarti
Debaprasad Shom
(Treasurer BECA, East Coast)

B. E. COLLEGE 8
ALUMNI ASSOCIATION
U.S.A. AND CANADA



12th Annual Reunion
Thompson Park, N. J.
6th August, 1983

9

বঙ্গ সংস্কৃতি সঙ্ঘ
CULTURAL ASSOCIATION OF BENGAL
101, IDEN AVENUE, PELHAM MANOR, N. Y. 10803

1983

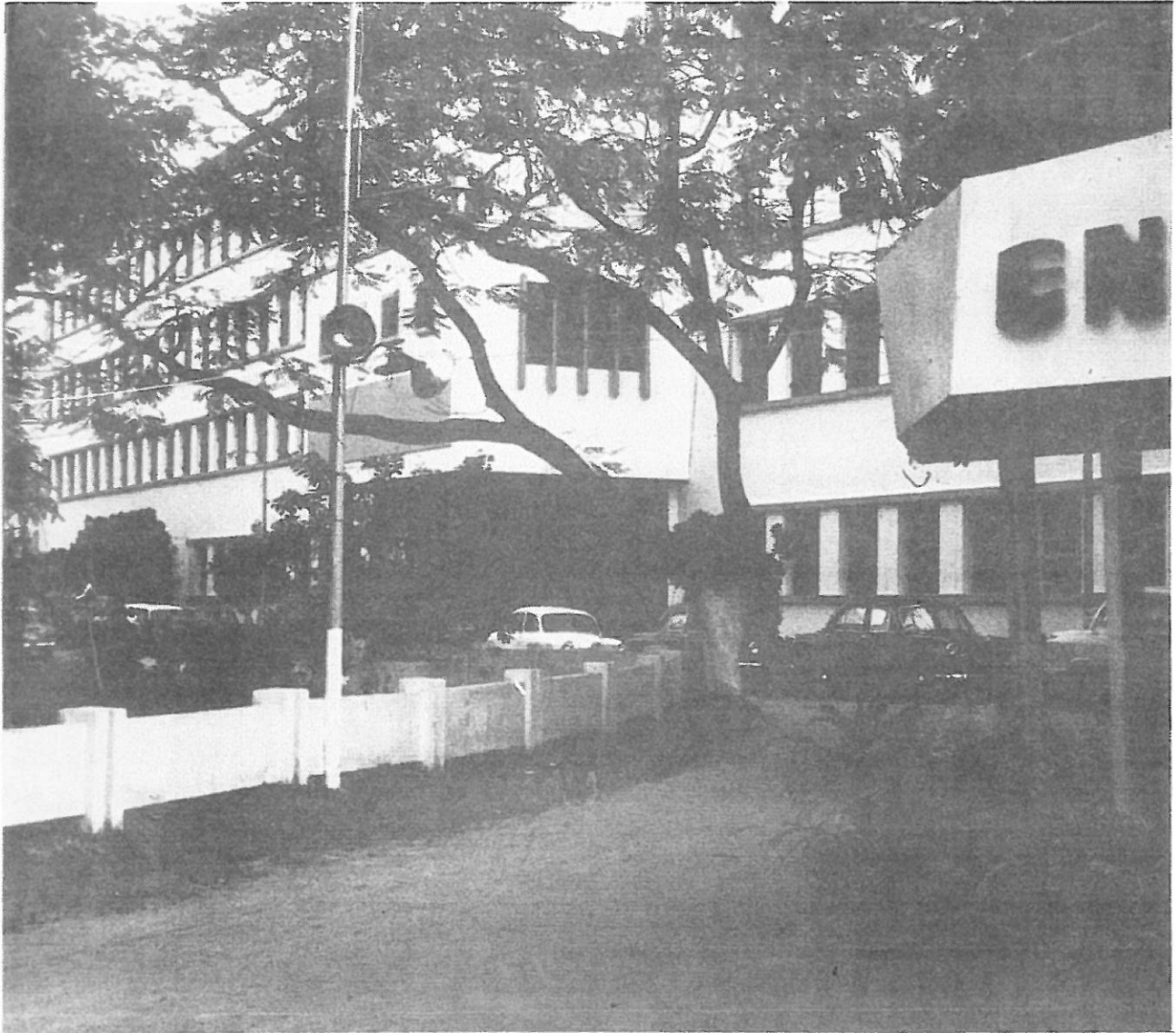
সংবাদ বিজ্ঞপ্তি

B.E. COLLEGE ALUMNI ASSOCIATION OF
U.S.A. & CANADA

12th Annual Reunion - Aug. 6, 11 AM
at Thompson Park, Grove #2, Jamesburg,
N.J.

Events - Magic show, Dance drama,
Movie, Lunch, Snacks etc.

For donation, queries and route
direction, please call S.P.Sircar,
201-592-1346



B.E. College Alumni Association

U.S.A. & CANADA

14th Annual Reunion

WEST NEW ROAD PARK & COMMUNITY CENTER
NEW JERSEY

August 17, 1985

Bengal Engineering College Alumni Association

USA & Canada

1985

(11)

EAST COAST CHAPTER

83B Dayton Drive
Edison, New Jersey 08820
Phone: (201) 321-1668

EXECUTIVE COMMITTEE

Asish Sengupta	President	(CE '53) (201) 433-6245
Suhas Choudhury	Executive Vice President	(CE '57) (201) 322-9282
Debi Prasad Ganguly	Vice President	(EE '45) (609) 772-1939
Subhendu Nath	Vice President	(EE '54) (201) 256-5062
Paritosh Ghatak	Vice President	(CE '60) (215) 691-8681
Sumit Roy	Vice President	(EE '60) (201) 654-7995
Debajyoti Mukhopadhyay	General Secretary	(ETC'77) (201) 321-1668
Debaprasad Shom	Treasurer	(ME '58) (201) 831-8853
Asoke Chakraborty	Member	(CE '70) (201) 338-8035
Dhiraj Chanda	Member	(CE '56) (609) 587-7946
Ajit Samanta	Member	(CE '63) (609) 424-6836
Saroj Bhol	Member	(CE '65) (201) 257-5989
Amitava Chatterjee	Member	(CE '65) (201) 398-5548
Ashok Datta	Member	(CE '65) (201) 328-0093
Madon Mohan Roy	Member	(EE '53) (203) 877-1516
Manoj Guha	Member	(Met '63) (212) 229-9379
Kamal Sarkar	Member	(ME '68) (201) 927-1924
Susanta Gupta	Past President	(CE '53) (212) 961-2930
Amit Banerjee	Past President	(CE '52) (516) 997-5080
Paresh Bhattacharya	Past President	(CE '47) (212) 896-9213

REGIONAL REPRESENTATIVES

D. Bhattacharjee	Maryland/Virginia	(ME '59)
A. K. Deb	Pennsylvania	(CE '57)
A. Majumder	Pennsylvania	(CE '58)
C. K. Sarkar	Massachusetts	(CE '51)
A. Bhattacharjee	Vermont	(Met '60)
B. Bhatta	New Jersey	(CE '65)
D. Ghosh	New Jersey	(CE '62)
A. Biswas	New York	(EE '68)
S. Lahiri	New York	(Met '61)

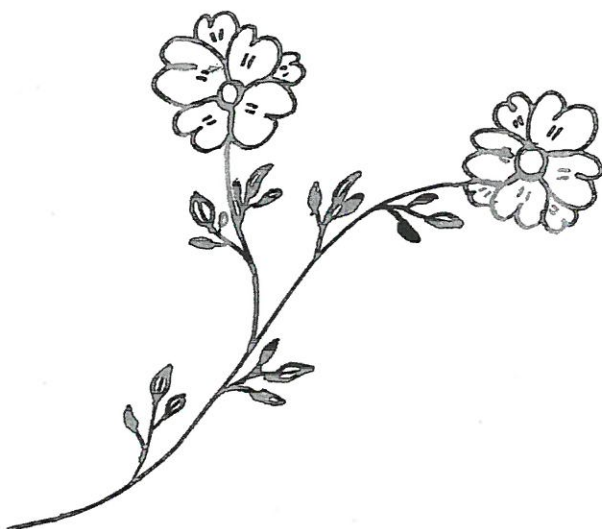
1985

12

OBITUARY

Mr. Uptal Halder, a graduate of Bengal Engineering College, class of 1961 (Civil), passed away on June 28, 1985. He was born in Meerut, U.P., India on January 25, 1941. An engineer of EBASCO, Inc., he was coming back to New Jersey from an official tour to Texas when he had a fatal heart attack aboard the plane. He leaves behind his wife Anuva, and two children Sahasradal and Ruchira. His younger brother Sankar is also an alumnus of our college.

We express our deep regret to the bereaved family and pray that his soul may rest in peace.



Bengal Engineering College Alumni Association
USA & Canada

EAST COAST CHAPTER

1986

13

83B Dayton Drive
Edison, New Jersey 08820
Phone: (201) 321-1668

FIFTEENTH ANNUAL REUNION

AUGUST 9, 1986

AT

WEST NEW ROAD PARK & COMMUNITY CENTER

NEW ROAD, SOUTH BRUNSWICK, N. J.

11:00 A.M.	Registration
11:15 A.M.	Sports and Games
1:00 P.M.	Lunch
2:30 P.M.	Meeting and Election
4:00 P.M.	Tea
6:30 P.M.	Cultural Evening

COVER DESIGN: DEBAJYOTI MUKHOPADHYAY (ETCE, 1977)

1986

14

... who have this complaint of not being able to get some money out of it may hereafter adopt Vikram Seth as their model.

The Golden Gate novel in verse, has sold around 20,000 copies, a respectable figure for a work of poetry. The sales are expected to be even higher. The book, a bestseller in the San Francisco area, would top the list in Britain and Australia, and receive the acclaim of the United States.

The novel is matched by the author's other works. He has had from such writers as Gore Vidal, called it "the great novel." Critic D.J. called it "a technical English."

is not a new name for Seth, a Ph.D. in the economic history of China at Stanford. But the latest bout anticipated, Seth

in Calcutta, brought to Patna, is an alumna of Dun's Doon School, Stanford University. Seth is a business man. In his life, he said recently, was a hitch in China between Lhasa in Tibet

made me tough and plenty of optimism." He is hardly a done thing and Seth had to depend on trucks for most of the

The several months traveling in China made constantly about life there was so much of it between travels. "You are in a small village, and for no there are no signs of any vehicle approaching. So what do you but think about life?" It was during this trip, Seth thought writing short stories. Instead came "The Gate," and success.

The plot is water the thin. In a nutshell, "The Golden Gate" is about the gains and losses in friendship. John, the protagonist, is a successful computer executive in Silicon Valley. He describes himself as "young, employed, healthy, ambitious, self-made, self-possessed." Despite all this, "John Jones of my heart's power meets the



সংবাদ বিচিত্রা

বঙ্গ সংস্কৃতি সংঘের সংবাদ-পত্রিকা

Published by CULTURAL ASSOCIATION OF BENGAL
101 IDEN AVENUE, PELHAM MANOR, N.Y. 10980.
For information please call: (914) 738-4775

৮ই মে সর্বশেষ সংখ্যা ১০ম বর্ষ, ১১ম সংখ্যা,
৬ই জুলাই, ১৯৮৬ ২১ম প্রসাদ, ১৩৯৩



Bengal Engineering College Alumni Association
U.S.A. & Canada

83B Dayton Drive, Edison, New Jersey 08820

on August 9, 1986, 11 A.M.

15th Annual Reunion at
West New Road Park, South Brunswick

For more information, call:

- A. Sengupta (201) 433-6245; S. Bhel (201) 257-5969
- K. Pathek (718) 446-0011; S.P. Sircar (516) 331-4513
- P. K. Ghatak (212) 691-8681; S. Nath (212) 839-3868
- D. Chanda (609) 587-7944; D. Mukhopadhyay (201) 321-1668

Why not? After all, I'm from India for it is but natural to my immediate vicinity."

The other predicted interviewers asked me to write the novel tired of explaining I will do it again. I

than a year ago, I cited Pushkin's 'Eugene Onegin,' written in sonnet form, which has always been fond of poetry, and I also like Pushkin?"

My friends and colleagues are surprised at what has happened. I always did something, says Vikram

former girl friend, a sculptor by day and a drummer by night. And there are cats with exotic

"Golden Gate" is a book I should have been a dissertation," said Vikram. "I often thought of

"I've asked me after all, I have friends, and it is but an immediate world...."

ing a set of short stories about the Bay area because I have lived here so long. He was often asked to write an Indian novel. "Not only Indians have asked

"It wasn't easy to sell the book. Over a dozen publishers including Random House wanted to buy the book. I said, 'No, I won't have any bidding.' I opted out for Random House because I liked the look of their other books. Besides, I liked the promotion tour they planned."

How has the success of the book changed Seth's life? "My friends and colleagues at Stanford are not surprised at what has happened to me. 'Vikram always does something crazy,' many of them would say. The main change that there has been a lot more demands on my time. I am used to sitting at home in the evening either reading or talking to friends or watching television

Page 12, News India, June 20, 1986
COMMUNITY NEWS
Bengal Eng. Alumni

The Bengal Engineering College Alumni Association, US and Canada, East Coast Chapter, will celebrate its 15th annual reunion on August 9 in South Brunswick, N.J.

For information on the day's event call (201) 321-1688 or (718) 446-0011.

Page 8 INDIA ABROAD June 20, 1986
Bengal Alumni
The 15th annual reunion of the East Coast chapter of the Bengal Engineering College Alumni Association is slated for Aug. 9 from 11 a.m. to 11 p.m. The program, to include a picnic and movie, will be held at the West New Road Park in South Brunswick, N.J. For details call (201) 321-1688 or 446-0011.

Role of

One of the basic elements of the state is that its state affects the character of nations in. In order to meet the changing role of India, it is necessary to ask. So much has India and to India in 38 years, so much and so much has

language. There are over 5,000 publications in Hindi alone. This is the trend for the future as new literates enter the reading market. They are more likely to read the regional language. It would also change the kind of journalism we have. It would tend to be close to the grassroots and probably more

ditions of professor Harold people without sooner or later a basis for freedom. The question is often asked as to whether a poor country needs or can afford a free press. Let me just say it is absolutely essential.

ineffective or on the decline, journalism has an extra obligation. For example in India, Parliament has progressively been packed with people of less distinction, inner-party democracy with the Congress has virtually faded away and the debate during sittings of the two Houses has

1987

15

The Mexico City Earthquake

Impressions and Tentative Conclusions

by S. K. Ghosh, Ph.D. *
and
Mark Kluver, P.E.



Dr. Ghosh is associate professor of civil engineering, University of Illinois at Chicago, and principal of Fintel-Ghosh, Inc., Chicago, Illinois. He is the author of numerous publications dealing primarily with the seismic resistance and design aspects of concrete structures and has contributed to significant developments in the field of high-rise building construction. He is active in committee work for a number of professional associations and is frequently a guest speaker for the American Concrete Institute (ACI), the Concrete Reinforcing Steel Institute (CRSI) and PCA in cities throughout the United States. Prior to assuming his present position, Dr. Ghosh was on the professional staff of the Portland Cement Association and continues to be a consultant to PCA on seismic matters.



Mr. Kluver is codes and standards engineer with the Portland Cement Association in San Ramon, California, located in the San Francisco Bay area. A graduate of the University of Southern California and the California State Polytechnical University at San Luis Obispo, he is a licensed civil engineer in the State of California. He is an active member of the Structural Engineers Association of California, the California Fire Protection Officers Association (Northern California) and several chapters of the International Conference of Building Officials (East Bay, Peninsula, Sacramento Valley and Colorado Chapters). Prior to joining PCA in 1978, Mr. Kluver was assistant building official for the City of Ventura, California, having also served as plan check engineer at that city from 1971 to 1974.

* 1966 (C.E.)

The earthquake that shook Mexico City at 7:18 a.m. on September 19 reportedly measured 8.1 on the Richter scale and was one of the strongest ever felt in that region. It was followed the next day by a less intense but longer duration aftershock. Even though the epicenter of the initial quake was located 240 miles from Mexico City (and several miles off the Pacific Coast), the city suffered heavy losses in a relatively small but densely built downtown area. It is estimated that over 260 buildings collapsed and approximately 3,200 buildings were damaged, with most damage occurring during the more intense initial tremor. It was fortunate that the earthquake occurred early in the morning, but even so well over 7,000 persons lost their lives and many times more were injured and left homeless. Many perished in a number of hospitals which, along with several public school buildings, accounted for a disproportionate number of building collapses.

The earthquake was caused by a subduction-type seismic fault in which an oceanic plate of the earth's crust is slowly pushing beneath a converging continental plate. Earthquakes created by this type of faulting can be quite different from and of longer duration than those caused by, for instance, the San Andreas Fault in California where two tectonic plates are sliding past each other in a shearing-type motion. In addition to its long duration of nearly a full minute of strong shaking, the September 19 earthquake had an almost regular 2-second period of horizontal ground motion recorded at the center of an old lake bed on which downtown Mexico City is founded. The lake bed's soft, compressible soils are believed to have been responsible for amplification of peak ground acceleration 0.20 g (i.e., 20 percent of gravity) found on the lake bed from the 0.04 g measured on firmer neighboring rock formations on which undamaged portions of the city were supported. Where there was almost no damage to buildings built on firm ground surrounding the lake bed, severe damage resulted on the soft lake bed and moderate damage was found in a transition soil zone.

Flexible frame buildings in the 5- to 21-story height range were most critically affected. Concrete and steel-frame buildings in this height range are known to have initial natural periods of vibration between 0.5 and 2.1 seconds. As concrete buildings go through earthquakes and accumulate damage, these initial periods lengthen significantly—in extreme cases to as much as three times the starting values. It is believed that the matching of the predominant periods of the earthquake motion registered on the lake bed (around two seconds), and the natural period of vibration of buildings in the medium-height range created an effect akin to resonance, which greatly amplified the earthquake's destructive force.



1987

16

THE KULJIAN CORPORATION

.....COMMITMENT TO ENGINEERING EXCELLENCE

Corporate Office: 3700 Science Center
Philadelphia, Pennsylvania, 19104
Telephone: (215)243-1900
Telex: 83-4825 KULCIA PH
Cable: KULCIA PH
Fax:(215)243-1909
Member: American Consulting Engineers Council(ACEC)

Founded in Philadelphia in 1930, THE KULJIAN CORPORATION, is a multidisciplined Architect Engineering Firm specializing in Energy and Power Plant Engineering. With a staff strength exceeding 1800 located in offices in the US and overseas, KULJIAN offers a full range of services from project planning, engineering, through construction management, to industries, utilities and government agencies.

During the past 56 years, KULJIAN has been providing Design Engineering Services for Energy and Power Plant Facilities - new or retrofit.

As independent Architect/Engineers, we perform in the best interest of our clients. We have no obligations to any particular system, approach, manufacturer, or type of equipment, thereby recommending the best alternative which meets your needs and saves on your energy bill.

KULJIAN PROVIDES:

- o Total Project Engineering Services, from Project Planning to Engineering through Construction Management for **Energy and Power Plants.**
- o Specialized expertise in Energy Systems Engineering with the objective of reducing energy costs, including designing of **Cogeneration and HVAC** systems.
- o Engineering Evaluation of existing power plants for Plant Life Extension, and recommendations with cost estimates.
- o Balance of Plant Engineering for **Waste-to-Energy** projects.

ENGINEERING STUDIES; DESIGN, ENGINEERING & PROJECT MANAGEMENT SERVICES:

- | | |
|----------------------------------|-------------------------------------|
| o Energy Audits | o Quality Assurance/Quality Control |
| o Environmental Studies | o Progress Planning & Scheduling |
| o Feasibility Studies | o Inspection/Expediting |
| o Site Survey & Site Selection | o Cost Estimating & Cost Control |
| o Plant Conceptual Design | o Construction Supervision |
| o Specification & Bid Evaluation | o Start-up & Commissioning |
| o Procurement | o Preparation of O&M Manuals |
| o Detailed Engineering | o Computer Aided Design & Drafting |

17

**Bengal Engineering College Alumni Association
USA & Canada**

EAST COAST CHAPTER

A Non-Profit Organization

25-12 73rd Street
Jackson Heights,
New York 11370
Tel. 718-446-0011

SIXTEENTH ANNUAL REUNION CELEBRATIONS

August 8, 1987

AT

WEST NEW ROAD PARK & COMMUNITY CENTER
NEW ROAD, SOUTH BRUNSWICK, NEW JERSEY

PROGRAMME PREVIEW

11:00 AM	Registration
11:30 AM	Sports & Games
1:30 PM	Lunch
3:00 PM	Annual Business Meeting
4:30 PM	Tea
5:00 PM	Youth Programme
6:30 PM	Cultural Evening and Dinner

Have a nice day

Bengal Engineering College Alumni Association USA & Canada

EAST COAST CHAPTER

(18)

A Non-Profit Organization

25-12 73rd Street
Jackson Heights,
New York 11370
Tel. 718-446-0011

EXECUTIVE COMMITTEE

(1 9 8 7 - 1 9 8 8)

President	Subhendu Nath	()
Executive Vice President	Suhas Choudhury	()
Vice President	Debi Prasad Ganguly	()
Vice President	Paritosh K. Ghatak	()
Vice President	Shiba Prasad Sircar	()
Vice President-Finance & Treasurer	Debaprasad Shom	()
Vice President-Sports	Asoke Datta	()
Vice President-Brochure	Debajyoti Mukhopadhyay	()
Vice President-Entertainment	Saroj Bhol	()
Vice President-Press & Publicity	Seshadri Bhattacharya	()
General Secretary	Kumares Pathak	()
Asst. Gen. Secretary	Seshadri Gupta	()
Co-Treasurer	Chandi C. Mandal	()
Member:		
Abhijit Chatterjee	('69 C.E.)	Asoke Chakrabarty ()
Debashis Banerjee	('66 C.E.)	Debajyoti Guha ()
Barun Mukhopadhyay	('63 C.E.)	Madan M. Roy ()
Amitabha Mukherjee	('83 C.E.)	Raghubir Sen ()
Paritosh Chatterjee	('69 E.E.)	Dhiraj Chanda ()
Ajay K. Sil	('68 M.E.)	Prabal C. Mukherjee ()
Arun K. Deb	('57 C.E.)	Swapna Mukherjee ()
Arnab Pal	('62 M.E.)	Subhas Brahma ()
Bamandas Pattanayak	('63 M.E.)	Amitava Chatterjee ()
Rabindranath Mukherjee	('70 E.E.)	Bimal K. Bose ()
Past President (1971-'80)		Paresh Bhattacharya ()
Past President (1980-'82)		Amit Banerjee ()
Past President (1982-'84)		Susanta Gupta ()
Past President (1984-'86)		Asish Sen Gupta ()

**Bengal Engineering College Alumni Association
USA & Canada**

19

EAST COAST CHAPTER

A Non-Profit Organization

1988

- 1 Best Wishes Messages
- 8 What I saw in Japan - Dr. Bimal K. Bose
- 18 Infrastructure Crises-New York & Calcutta - D. Guha
- 28 A Magic Alloy - Prof. M. K. Banerjee
- 37 Socio-Economic Responsibilities of a Modern Executive - Ajay K. Sil
- 38 Dual Water Supply - An Approach to Urban Water Management - Arun K. Deb
- 47 Computer Communication - R. N. Mukherjee
- 62 There's no Room on Long Island for the Young - Sachi G. Dastidar
- 63 Costing the Computers - Kumares Pathak
- 68 Optimization Models in Bridge Design - Sheshadri Bhattacharya
- 71 A Modern Hospital in Calcutta - D. M. Chanda & S. P. Nandi
- 73 BECAA Digest & Alumni Address List

T
A
B
L
E

O
F

C
O
N
T
E
N
T
S

Published By: BECAA; 25-12 73rd Street; Jackson Heights; New York - 11370 on August 13, 1988 to commemorate 17th Annual Reunion celebration at West New Road Park & Community Center; New Road, South Brunswick, New Jersey.

Editor: Kumares Pathak

20

THE WHITE HOUSE
WASHINGTON

July 25, 1988

To the Bengal Engineering College
Alumni Association:

On the occasion of your 17th reunion, I am
pleased to extend my warm greetings.

I know that this occasion brings fond memories
and renewed friendships. Coming together in
this way, you honor your community, your school
and your fellow graduates. You also reaffirm the
American tradition of fellowship and goodwill.

Nancy joins me in offering our best wishes for a
happy celebration. God bless you.

Ronald Reagan

**Bengal Engineering College Alumni Association
USA & Canada**

EAST COAST CHAPTER

A Non-Profit Organization

1988 - 1989
(21)

**T
A
B
L
E

O
F

C
O
N
T
E
N
T
S**

- i Best Wishes Messages
- 1 Simplified Optimum Design of Branched Pipe Network Systems
- Arun K. Deb
- 12 Motion Control Technology - Present and Future - Dr. Bimal
K. Bose
- 20 Geotechnical Aspects of the Fort McHenry Tunnel Design
and Construction - S. K. Sarkar & G. A. Munfakh
- 35 Formulation of Cost/Business Analysis - Kumares Pathak
- 39 Realistic Approach to New Generation of Transportation
- Shiba P. Sircar
- 43 Would You Like to Start Your Own Consulting Firm - A Successful
Indian Consulting Engineer
- 45 Construction Practices in USA and in India - D. Guha
- 51 Bridging in the Past, Present and the Future - P. K. Mallick
- 59 BECAA Digest & Alumni Address List

Published By: BECAA. 25-12 73rd Street; Jackson Heights;
New York 11370 on August 12, 1989 to
commemorate 18th Annual Reunion celebration
at West New Road Park & Community Center;
New Road; South Brunswick, New Jersey.

area?" The US is faced with a serious challenge. It seems the technology base is shifting overseas. Universities and industries do not appear to be giving adequate R & D effort in this area. The US is likely to lose its competitive position. I am asking universities, industries, and Government to work closely to promote this vital technology. We also need to work closely with the application industries by motivating and educating them as to how productivity and quality can be enhanced by using state-of-the-art motion control technology.

1989

22

New Fellows in the Industry Applications Society



Bimal K. Bose (S'59-M'60-SM'78-F'89) "For contributions to power electronics and special technology."

Dr. Bimal Bose received the B.E. degree from Calcutta University, Calcutta, India, in 1956, the M.S. from the University of Wisconsin, Madison, in 1960, and the Ph.D. degree from Calcutta University.

He holds a joint appointment as Condra Chair of Excellence in Power Electronics in the Department of Electrical Engineering at the University of Tennessee, Knoxville, and as Chief Scientist in the Electronics Applications Center (PEAC), Knoxville. The PEAC is the national research and development center of power electronics to enhance productivity of the nation's industries. His work in both institutions is in teaching and research and development in power electronics areas. He also advises the PEAC in developing its research and development program. Prior to this, he was a Research Scientist in the Electric Research and Development Center, Schenectady, NY, for 11 years (1976-1987). During this time he did extensive research in power converters, drive systems, system simulation, and microcomputer performance optimization of power electronics and drives. He was Associate Professor of Electrical Engineering in Rensselaer Polytechnic Institute, Troy, NY, for five years (1971-1976), where he was responsible for organizing undergraduate programs in power electronics. He served as a Consultant to a number of industries which included General Electric Research and Development Center, Bendix Corporation, Electronics, and PCI Ozone Corporation. He was a member of the faculty at Calcutta University (Engineering College), India, for 11 years (1960-1971) where he was awarded the Premchand Bhowmik Scholarship and the Mouat Gold Medal for outstanding research contributions. He was an Engineer in Charge at the Power Company for two years (1956-1958).

Dr. Bose has published over 70 papers and holds 16 U.S. patents. He has authored three books in power electronics: *Adjustable Speed AC Drive Systems* (IEEE Press, 1981, translated into Chinese), *Power Electronics and AC Drives* (Prentice-Hall, translated into Japanese and Chinese), and *Microcomputer Control of Power Electronics and Drives* (IEEE Press, 1987). He has also contributed to the field of ac drives in the *Systems and Control Encyclopedia* (Pergamon Press, 1987). He was Chairman of the IEEE Transactions Review of the Solid State Converter Committee for eight years and is now Vice Chairman of the same committee. He is Technical Committee Chairman of the IEEE Industrial Electronics Society Power Electronics group and Associate Editor of IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS. He has served as a member in a number of national and international professional committees which include Industrial Drives Committee of the IEEE Industry Applications Society, the Power Electronics and Microcomputer Control Committees of IEEE Industrial Electronics Society, the IEEE International Static Power Converter Conference, the International Conferences on Microcomputer Control of Small Machines, the International Conference on Evolution and Modern Aspects of Electrical Machines, the International Conference on Numerical Control of Electrical Machines, and the Tokyo International Power Electronics Conference. He has given keynote speeches in a number of national and international conferences. He is a member of the editorial board of the international *ELECTROSOFT* and is listed in *Who's Who in Technology*, *International Who's Who in Engineering*, *Personalities in America*, *Biography International*, and *Who's Who of World Researches and Leading Consultants in Technology*. He is a recipient of the General Electric Publication Award and the Silver Patent Medal from the Institute of Electronics and Telecommunications Engineers, India, has established the Bimal Bose Award in Power Electronics which is awarded annually to an Indian engineer for outstanding contributions in power electronics.

KETAN SAREE CENTER

J.M. & SONS

India Discount Stores

WHOLESALE & RETAIL

We carry imported saris, pant suit & shirt length.

110/220 V major and minor appliances • Digital system PAL to NTSC. NTSC to PAL
Complete line of Indian spices & Groceries at a LOW LOW PRICE

769, 771 Newark Avenue, Jersey City, NJ 07306

(201) 653-2892

23

Simplified Optimum Design of Branched Pipe Network Systems

Arun K. Deb. F.ASCE*

Introduction

The decade of 1980 has been declared as the United Nations Drinking Water Supply Decade. The goal is to supply safe drinking water at minimum cost in cities and villages of developing nations. Most of the cost of a water system is in the distribution system. Therefore, reducing the cost of the distribution system would be one criterion used when designing a water system for a developing nation.

Closed-loop water distribution pipe networks are now widely used for public water supply systems. Though closed-loop pipe networks are always more expensive than corresponding branched pipe network systems, a closed system is generally used for its reliability and flexibility of operations. In developing countries, particularly for small village communities' water supply, a branched network consisting of a pump and over head reservoir is used. In addition, a branched pipe network system is also used for irrigational water supply. The usual practice of design is based on the assumption of suitable sizes of pipes for various sections of a distribution system, and then required hydraulic conditions are checked. The design of a branched water distribution system by this method may not be economical. A linear programming technique was used to find an optimum design of branched pipe network systems. Deb also developed a method of obtaining the combination of head loss and pipe sizes for least cost for a branched pipe network system incorporating the pipe, pump, and energy cost functions. This method also becomes complicated, depending on the complexity of the branching structure. In this paper a simplified methodology for optimum design of a branched pipe network system has been outlined. The efficacy of the design method has been illustrated with an example, and the simplified solution is compared with rigorous optimum solution.

Model Formulation for a Single Pipeline System

In the design of a pipeline system, the costs of the system consist of the cost of pumps, pipe operation and maintenance (O&M), and energy. The size of the pipeline is an important factor in the whole pumping system. Smaller diameter pipelines will result in greater friction heads and more energy consumption. Again, with the increase in pipe size, energy costs will decrease but the cost of the pipelines will increase. The cost benefit from saving energy costs will be gradually reduce with the increase in pipe size and will reach an optimum size beyond which energy costs are not sensitive to the total cost of the

*Vice President, Roy F. Weston, Inc., Weston Way, West Chester, Pennsylvania 19380, U.S.A.