

CONTENTS.

PAPERS.

No.		PAGE.
1038	THE ATCHAFALAYA RIVER: SOME OF ITS PECULIAR PHYSICAL CHARACTERISTICS.	
	By J. A. Ockerson	1
	Discussion :	
	By HENRY B. RICHARDSON	12
	T. G. DABNEY	15
	FRANK M. KERR	18
	L. J. LE CONTE	24
	J. A. OCKERSON	27
1039	TWENTY YEARS' RUN-OFF, AT HOLYOKE, MASS., OF THE CONNECTICUT RIVER.	
	By Clemens Herschel	29
	Discussion :	
	By H. V. HINCKLEY	34
	JOHN C. HOYT	34
	CLEMENS HERSCHEL	36
1040	THE NECAXA PLANT OF THE MEXICAN LIGHT AND POWER COMPANY.	
	By F. S. Pearson and F. O. Blackwell	37
	Discussion :	
	By EDWIN H. WARNER	51
	H. F. LABELLE	52
	F. G. BAUM	57
	J. D. GALLOWAY	58
	F. O. BLACKWELL	62
1041	ADDITIONAL INFORMATION ON THE DURABILITY OF WOODEN STAVE PIPE.	
	By Arthur L. Adams	65
	Discussion:	
	By SHIRLEY BAKER	71
	CLEMENS HERSCHEL	73
	D. C. HENNY	74
	G. P. HAWLEY	77
	ANDREW SWICKARD	77
	A. M. HUNT	84
	L. J. LE CONTE	84
	T. CHALKLEY HATTON	85
	J. C. RALSTON	90
	C. D. MARX	92
	D. FARRAND HENRY	93
	EDWIN DURYEA, JR.	93
	ARTHUR L. ADAMS	95

IV

No.	PAGE.
1042. THE NAVAL FLOATING DOCK—ITS ADVANTAGES, DESIGN AND CONSTRUCTION.	
By Leonard M. Cox.....	97
Discussion:	
By GEORGE B. RENNIE.....	151
J. R. BATERDEN.....	152
CECIL H. PEABODY.....	155
C. COLSON.....	156
A. C. CUNNINGHAM.....	159
LYONEL CLARK.....	163
EDWARD BOX.....	168
B. C. LAWS.....	170
L. J. LE CONTE.....	179
W. H. PRETTY.....	181
LEONARD M. COX.....	184
 1043 RECENT PRACTICE IN HYDRAULIC-FILL DAM CONSTRUCTION.	
By James D. Schuyler.....	196
Discussion :	
By CLEMENS HERSCHEL.....	253
WILLIAM L. BUTCHER.....	258
T. G. DABNEY.....	259
FREDERIC P. STEARNS.....	262
JAMES D. SCHUYLER.....	269
 1044 LIGHTHOUSE CONSTRUCTION IN THE PHILIPPINES.	
By Spencer Cosby.....	278
Discussion :	
By CHARLES E. L. B. DAVIS.....	291
SPENCER COSBY.....	292
 1045 THE FATIGUE OF CONCRETE.	
By J. L. Van Ornum	294
 1046 UNIFORMITY OF REQUIREMENT AND CLEARNESS OF SPECIFICATION IN AGREEMENTS FOR THE GRADUATION OF RAILROADS.	
By W. F. Dennis.....	321
Discussion :	
By GEORGE L. DILLMAN.....	352
J. L. CAMPBELL.....	354
M. S. PARKER.....	355
HALBERT P. GILLETTE	359
JAMES H. KENNEDY	362
F. LAVIS.....	364
T. KENNARD THOMSON.....	372
E. H. BECKLER.....	373
HAROLD BOUTON.....	381
SAMUEL TOBIAS WAGNER.....	387
C. O. VANDEVANTER.....	390
W. F. DENNIS.....	392
 1047 THE DESIGN OF THE NEW CROTON DAM.	
By Edward Wegmann.....	398

No.		PAGE.
	Discussion:	
	By CHARLES S. GOWEN.....	435
	GEORGE L. DILLMAN.....	440
	LUTHER WAGONER.....	441
	WILLIAM CAIN.....	444
	EDWARD WEGMANN.....	449
1048	RAINFALL, AND RUN-OFF IN STORM-WATER SEWERS.	
	By Charles Emerson Gregory	458
	Discussion:	
	By WILLIAM C. HOAD.....	491
	A. MARSTON.....	498
	W. B. RUGGLES.....	500
	EMMET A. STEECE.....	501
	L. J. LE CONTE.....	502
	CHARLES B. BURDICK.....	504
	CHARLES EMERSON GREGORY.....	509
1049	TYPHOID MORTALITY IN SOUTH BETHLEHEM, PA.	
	By Mansfield Merriman and Winter L. Wilson.....	511
1050	THE ENGINEER AS A PROFESSIONAL MAN.—ADDRESS AT THE ANNUAL CONVENTION, CITY OF MEXICO, JULY 8th, 1907.	
	By George H. Benzenberg.....	515

MEMOIRS OF DECEASED MEMBERS.

	PAGE.
JOHN JAMES ROBERTSON CROES, PAST-PRESIDENT, AM. SOC. C. E.....	524
FREEMAN CLARKE COFFIN, M. AM. SOC. C. E.....	532
CHARLES HUMPHREYS, M. AM. SOC. C. E.....	534
WALLACE CLYDE JOHNSON, M. AM. SOC. C. E.....	538
FELICIAN SLATAFER, M. AM. SOC. C. E.....	540
GEORGE TATNALL, M. AM. SOC. C. E.....	544
ARTHUR PRICE LAW, ASSOC. M. AM. SOC. C. E.....	547
HENRY BRIGHAM LOOKER, ASSOC. M. AM. SOC. C. E.....	548
EDDY ELBERT YOUNG, ASSOC. M. AM. SOC. C. E.....	551
ALBERT HENRY ZELLER, ASSOC. M. AM. SOC. C. E.....	554
BENNO ROHNERT, JUN. AM. SOC. C. E.....	557

PLATES.

PLATE.		PAPER.	PAGE.
I	Map of Atchafalaya River.....	1038	3
II	Short Reaches on the Atchafalaya River.....	1038	7
III	Views on the Atchafalaya River.....	1038	9
IV	Intake for Dam No. 2, Necaxa.....	1040	39
V	Plan and Profile of Pipe Line at Necaxa.....	1040	41
VI	General Plan of Power-House No. 1.....	1040	43