

CONTENTS

PAPERS

No.		PAGE
1167 EXPANSION OF PIPES.		
By Ralph C. Taggart		1
Discussion :		
By WILLIAM D. ENNIS.....		31
WILLIAM KENT.....		31
RALPH C. TAGGART.....		32
1168 TESTS OF CREOSOTED TIMBER.		
By W. B. Gregory.....		37
1169 SOME MOOTED QUESTIONS IN REINFORCED CONCRETE DESIGN.		
By Edward Godfrey.....		54
Discussion :		
By JOSEPH WRIGHT.....		72
S. BENT RUSSELL.....		73
J. R. WORCESTER.....		74
L. J. MENSCH.....		76
WALTER W. CLIFFORD.....		80
J. C. MEEM.....		82
GEORGE H. MYERS.....		84
EDWIN THACHER.....		85
C. A. P. TURNER.....		87
PAUL CHAPMAN.....		90
E. P. GOODRICH.....		95
ALBIN H. BEYER.....		102
JOHN C. OSTRUP.....		105
HARRY F. PORTER.....		111
JOHN STEPHEN SEWELL.....		124
SANFORD E. THOMPSON.....		128
EDWARD GODFREY.....		133
1170 THE WATER SUPPLY OF THE EL PASO AND SOUTHWESTERN RAILWAY FROM CARRIZOZO TO SANTA ROSA, N. MEX.		
By J. L. Campbell.....		164
Discussion :		
By G. E. P. SMITH.....		186
KENNETH ALLEN.....		186
J. L. CAMPBELL.....		188
1171 FEDERAL INVESTIGATIONS OF MINE ACCIDENTS, STRUCTURAL MATERIALS, AND FUELS.		
By Herbert M. Wilson		190
Discussion :		
By KENNETH ALLEN.....		300
HENRY KREISINGER.....		300
WALTER O. SNELLING.....		307
A. BARTOCCINI.....		312
H. G. STOTT.....		313
B. W. DUNN.....		314
HERBERT M. WILSON.....		318

No.		PAGE
1172	LOCOMOTIVE PERFORMANCE ON GRADES OF VARIOUS LENGTHS.	
	By Beverly S. Randolph.....	321
	Discussion :	
	By C. D. PURDON.....	329
	JOHN C. TRAUTWINE, JR.....	330
	BEVERLY S. RANDOLPH.....	333
1173	A CONCRETE WATER TOWER.	
	By A. Kempkey, Jr.....	334
	Discussion :	
	By MAURICE C. COUCHOT.....	348
	L. J. MENSCH.....	348
	A. H. MARKWART.....	349
	A. KEMPKEY, JR	350
1174	PRESSURE, RESISTANCE, AND STABILITY OF EARTH.	
	By J. C. Meem.....	352
	Discussion :	
	By T. KENNARD THOMSON.....	389
	CHARLES E. GREGORY.....	391
	FRANCIS W. PERRY.....	392
	E. P. GOODRICH	393
	FRANCIS L. PRUYN.....	398
	FRANK H. CARTER.....	399
	J. C. MEEM.....	401
1175	THE ULTIMATE LOAD ON PILE FOUNDATIONS: A STATIC THEORY.	
	By John H. Griffith.....	412
	Discussion :	
	By LUTHER WAGONER	442
	JOHN H. GRIFFITH.....	443
1176	REINFORCED CONCRETE PIER CONSTRUCTION.	
	By Eugene Klapp	448
	Discussion :	
	By WILLIAM ARTHUR PAYNE.....	455
	EUGENE KLAPP.....	455
1177	FINAL REPORT OF SPECIAL COMMITTEE ON RAIL SECTIONS.	456
1178	ADDRESS AT THE 42d ANNUAL CONVENTION, CHICAGO, ILLINOIS, JUNE 21st, 1910.	
	By John A. Bensel.....	464

MEMOIRS OF DECEASED MEMBERS

	PAGE
LINUS WEED BROWN, M. AM. SOC. C. E.....	470
CHARLES ALFRED HASBROUCK, M. AM. SOC. C. E.....	473
JOHN HENDERSON SAMPLE, M. AM. SOC. C. E.....	474
ALBERT MATHER SMITH, M. AM. SOC. C. E.....	476
JACOBUS VAN DER HOEK, M. AM. SOC. C. E.....	477
LUTHER ELMAN JOHNSON, JUN. AM. SOC. C. E.....	480