TRANSACTIONS OF THE AMERICAN DENTAL ASSOCIATION AT THE THIRTY-SIXTH ANNUAL SESSION, HELD AT SARATOGA SPRINGS, N. Y., COMMENCING ON THE 4TH OF AUGUST, 1896

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TRANSACTIONS OF THE AMERICAN DENTAL ASSOCIATION AT THE THIRTY-SIXTH ANNUAL SESSION, HELD AT SARATOGA SPRINGS, N. Y., COMMENCING ON THE 4TH OF AUGUST, 1896



TRANSACTIONS

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OF THE

American Dental Association

AT THE

THIRTY-SIXTH ANNUAL SESSION,

HELD AT

SARATOGA SPRINGS, N. Y.

COMMENCING ON THE 4th OF AUGUST, 1896.

GEO. H. CUSHING.

PUBLICATION COMMITTEE : E. T. DARBY.

A. W. HARLAN.

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LIST OF OFFICERS FROM DATE OF ORGANIZATION.

PRELIMINARY CONVENTION, NIAGARA FALLS, AUGUST, 1859. President, W. W. ALLPORT . . . Chicago, Ill. Secretary, J. TAFT . . . 1240 . Cincinnati, Ohio. ORGANIZATION AND FIRST SESSION OF ASSOCIATION, WASHINGTON, D. C., JULY, 1860. [Annual meetings to be hereafter, last Tuesday in July.] President. W. H. ATRINSON. . . Cleveland, Ohio. 1st Vice-President, . Washington, D. C. J. B. GIBBS . . . W. CAHOON . . Detroit, Michigan. 2d Vice-President, × 3 Recording Secretary,]. TAFT. . . Cincinnati, Ohio. Corresponding Secretary, W. MUR ROCERS . Shelbyville, Ky. Treasurer, S. DILLINGHAM . . . Philadelphia, Pa. [No meeting in 1861.] CLEVELAND, JULY, 1862. President, GEO. WATT . Xenia, Ohio. W. H. ALLEN . New York City. 1st Vice-President, 224 2d Vice-President, W. D. STONE . Lexington, Ky. Recording Secretary, J. TAFT . . 100 . Cincinnati, Ohio, 82 . Indianapolis, Ind. Corresponding Secretary, J. F. JOHNSTON . W. A. PEASE . Dayton, Ohio. Treasurer, PHILADELPHIA, JULV, 1863. W. H. ALLEN . . President, . New York City. . . Phtladelphia, Pa. 1st Vice-President. J. H. MCQUILLEN 2d Vice-President, WM. B. HURD . . Brooklyn, N Y. Recording Secretary, . Cincinnati, Ohio. J. TAFT . . Corresponding Secretary, C. R. BUTLER . . Cleveland, Ohio. Treasurer, A. C. HAWES . New York City. 40 NIAGARA FALLS, JULY, 1864. I. H. MCQUILLEN President, . . Philadelphia, Pa. 1st Vice-President. С. Р. Гітсн. . New York City. , Detroit, Mich. 2d Vice-President, H. BENEDICT ÷. . Cincinnati, Ohio. Recording Secretary, J. TAFT, . . Philadelphia, Pa. Corresponding Secretary, GEO. W. ELLIS . Treasurer, I. |. WETHERBEE . . Boston, Mass, CHICAGO, JULY, 1865. . St. Louis, Mo. C. W. SPALDING . President, 1st Vice-President, GEO. H. CUSHING . Chicago, Ill. 2d Vice-President, JAS. MCMANUS . . . Hartford, Conn. Recording Secretary, J. TAFT. . . Corresponding Secretary, L. D. SHEPARD . Cincinnati, Ohio.
Boston, Mass.
Boston, Mass. $\sim 10^{-10}$. I. J. WETHERBEE . Treasurer, 444

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	BOSTON, JULY,	1866.			
President,	C. P. FITCH.	÷	*	a,	New York City.
1st Vice-President,	W. H. MORGAN		÷.		Nashville, Tenn.
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Recording Secretary,	J. TAFT.	÷.	2		Cincinnati, Ohio.
Corresponding Secretary					Norwalk, Conn.
Treasurer,	W. W. SHEFFIEL	D	έ.	*	New London, Conn.
i i i i i i i i i i i i i i i i i i i	CINCINNATI, JULY	, 180	57.		
President,	A. LAWRENCE	3 6		28	Lowell, Mass.
1st Vice-President,	P. G. C. HUNT	a.	õ.		Indianapolis, Ind.
2d Vice-President,	A. S. TALBERT	5	2		Lexington, Ky.
Recording Secretary,	J. TAFT.	λć.	96	3	
Corresponding Secretary	, C. R. BUTLER	*	э.	4	Cleveland, Ohio.
Treasurer,	W. H. GODDARD	۰.			Louisville, Ky.
, N	IAGARA FALLS, JU	L¥, 3	1868.		
President,	JONATHAN TAFT				Cincinnati, Ohio.
1st Vice-President,	HOMER JUDD	2	S.	12	St Louis, Mo.
2d Vice-President,	A. A. BLOUNT	<u>\$</u>	2	2	Springfield, Ohio.
Recording Secretary,	EDGAR PARK	36		÷	St. Louis, Mo.
Corresponding Secretary	JAS. MCMANUS				Hartford, Conn
Treasurer,	W. H. GODDARD	13			Louisville, Ky.
SARA	TOGA SPRINGS, AU	ous	r, 18	69 ¹	•0
President,	HOMER JUDD		117-23-23 1 1 0		St. Louis, Mo.
1st Vice-President,	S. J. COBB .	8		82	Nashville, Tenn,
2d Vice-President,	C. E FRANCIS	82	*	28	New York City.
Recording Secretary,	M. S. DEAN .	80		18	Chicago, Ill.
Corresponding Secretary	I. A. SALMON	8	÷.	÷.	Boston, Mass.
Treasurer,	W. H. GODDARD		¥.,	2	Louisville, Ky.
	NASHVILLE, AUG	UST,	1870	13	
President,	W. H. MORGAN	2	W^{00}		Nashville, Tenn.
ist Vice-President,	S. W. DENNIS	\hat{v}	32	14	San Francisco, Cal.
2d Vice-President,	J. R. WALKER		18		New Orleans, La.
Recording Secretary,	M. S. DEAN .		Q.01		
Corresponding Secretary	, I. A SALMON	8		1	Boston, Mass.
Treasurer,	W. H. GODDARD		×	98	Louisville, Ky.
WHITE SU	LPHUR SPRINGS, V	A., 4	Augu	ST,	1871.
President,	GEO. H. CUSHIN	G	34	3¥	Chicago, Ill
ist Vice-President,	C. E. FRANCIS			-	
2d Vice-President,		÷.			
Recording Secretary,		12	12		Chicago, 111.
Corresponding Secretary,		25	2		
				- 19 A	Louisville, Ky.

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* Owing to a change in the Constitution, officers elected at this and the sessions following served at the next annual meeting subsequent to their election; and the sessions of and after t869 commenced on the first Tuesday in August.

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NIAGARA FALLS, AUGUST, 1872.

2.0016	WARA THEMA, HOOD		101		
President,	P. G. C. HUNT	€ŝ.	\mathbf{x}		Indianapolis, Ind.
1st Vice-President,	L. D. SHEPARD	•			Boston, Mass.
2d Vice-President,	G. A. MILLS .				Brooklyn, N. Y.
Recording Secretary,	M. S. DEAN	8			Chicago, Ill.
Corresponding Secretary,	[. TAFT		×.	28	Cincinnati, Ohio,
Treasurer,	W. H. GODDARD	÷.	÷	æ	Louisville, Ky.
P	UT-IN-BAY, ACGOST	, 18	73.		
President,	T. L. BUCKINGHAM	r		3	Philadelphia, Pa.
1st Vice-President,	ISAIAH FORRES	8. 2011	8	÷.	St. Louis, Mo.
zd Vice-President.	A. F. MCLAIN		÷.		New Orleans, La.
Recording Secretary,	M. S. DEAN .				Chicago, Ill.
Corresponding Secretary,		8	8	8	Cincinnati, Ohio.
Treasurer,	W. H. GODDARD		÷.	8	Louisville, Ky.
3	DRTROIT, AUGUST,	(87	4.		
President,	M. S. DEAN			a.	Chicago, Ill.
ist Vice-President.	GEO. W. KEELY	*8 •6	×.		Oxford, Ohio.
2d Vice-President,	J. S. KNAPP	8		1	New Orleans, La.
Recording Secretary,	C. STODDARD SMIT		2		Springfield, Ill.
Corresponding Secretary,		n	×.		Detroit, Mich.
Treasurer,	W. H. GODDARD	88	х.	31	Louisville, Ky.
I reasorer,	W. H. GODDARD	3 5		1	Louisville, Ky.
	GARA FALLS, AUGI	JST,	1875.		
President,	A. L. NORTHROP	50	35	10	New York City.
1st Vice-President,	H. J. MCKELLOPS	12	÷.	2	St. Louis, Mo.
2d Vice-President,	H. A. Smith .	÷.		2	Cincinnati, Ohio.
Recording Secretary,	C. STODDARD SMIT	rH	(B)	ŝ.	Springfield, III.
Corresponding Secretary,	J. H. MCQUILLEN				Philadelphia, Pa.
Treasurer,	W. H. GODDARD	1	2	6	Louisville, Ky.
Рн	ILADELPHIA, AUGUS	sт,	1876.		
President,	GEO. W. KEELV	÷.°	8	22	Oxford, Ohio,
1st Vice-President,	C. N. PEIRCE		28	34	Philadelphia, Pa.
2d Vice-President,	CORVDON PALMER			38	New York City.
Recording Secretary,	C. STODDARD SMIT	TH	÷.	1	Springfield, Ill.
Corresponding Secretary,	I. H. MCOULLEN	20			Philadelphia, Pa.
Treasurer,	W. H. GODDARD	÷	*		Louisville, Ky.
	CHICAGO, AUGUST,	187	7.		
President.	F. H. REHWINKEL	C	693	-	Chillicothe, Ohio.
1st Vice-President,	L. D. SHEPARD		1	,	Boston, Mass.
2d Vice-President,	GEO. T. BARKER		2	2	Philadelphia, Pa.
Recording Secretary,	M. S. DEAN				Chicago, Ill.
Corresponding Secretary,			0		Lancaster, Pa.
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Treasurer,	W. H. GODDARD	•		1	Louisville, Ky.

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NIAGARA FALLS, AUGUST, 1878.

GARA FALLS, AUGU	51,	1070.		
H. J. MCKELLOPS	1. C	8.		St. Louis, Mo.
L. D. SHEPARD		S	12	Boston, Mass.
L. D. CARPENTER	14	1001		Atlanta, Ga.
GRO. H. CUSHING		19400		Chicago, 1d.
A. O. RAWLS .		2.5	1	Lexington, Ky.
		2003		Louisville, Ky.
GARA FALLS, AUGU	ST,	1879.		
L. D. SHEPARD				Boston, Mass.
C. N. PEIRCE .				Philadelphia, Pa.
GEO, L. FIELD			2	Detroit, Mich.
	8	56	2	CT1 1 T11
M. H. WEBB .	32	100		Lancaster, Pa.
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BOSTON, AUGUST,	186	D ,		
C. N. PEIRCE		8177		Philadelphia, Pa.
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	43.43	<u>8</u> 2	8	Salem, Mass.
			9	Louisville, Ky.
NEW YORK, JULY,	188			
				Cincinnati, Ohio.
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W. H. GODDARD	÷.	6 3		Louisville, Ky.
GEO. J. FRIEDRICH	IS	0.00		New Orleans, La.
E. T. DARBY .				Philadelphia, Pa.
GEO. H. CUSHING	1	35	10	Chicago, 111.
A. W. HARLAN		£:	\mathbf{x}	Chicago, Ill.
GEO. W. KEELY	5		\overline{a}	Oxford, Ohio.
GARA FALIS, AUG	'ST,	1883.		
E. T. DARBY .		- S		Philadelphia, Pa.
C. S. STOCKTON				Newark, N J.
T. T. MOORE .			×	AT 1 1 1 A AT AT
The second s		• 17		Chicago, Ill.
GEO. H. CUSHING	•	1	•	Chicago, Ill. Chicago, Ill.
	H. J. MCKELLOPS L. D. SHEPARD L. D. CARPENTER GRO, H. CUSHING A. O. RAWLS. W. H. GODDARD GARA FALLS, AUGU L. D. SHEPARD C. N. PEIRCE. GEO, L. FIELD GEO, H. CUSHING M. H. WEBB. W. H. GOPDARD BOSTON, AUGUST, C. N. PEIRCE. W. C. BARRETT GEO, J. FRIEDRICE GEO, H. CUSHING A. M. DUDLEY W. H. GODDARD NEW YORK, JULY, H. A. SMITH. W. C. BARRETT GEO, J. FRIEDRICE GEO, H. CUSHING A. M. DUDLEY W. H. GODDARD CINCINNATI, AL'GUS W. H. GODDARD GEO, J. FRIEDRICE GEO, H. CUSHING A. W. HARLAN GEO, W. KEBLY GARA FALUS, AUGU E. T. DARBY. C. S. STOCKTON	H. J. MCKELLOPS . L. D. SHEPARD . L. D. CARPENTER . GRO, H. CUSHING . A. O. RAWLS . W. H. GODDARD . GARA FALLS, AUGUST, L. D. SHEPARD . C. N. PEIRCE . GEO, L. FIELD . GEO, L. FIELD . GEO, L. FIELD . W. H. GODDARD . BOSTON, AUGUST, 1986 C. N. PEIRCE . W. C. BARRETT . GEO, J. FRIEDRICHS GEO, H. CUSHING . A. M. DUDLEY . W. H. GODDARD . NEW YORK, JULY, 1888 H. A. SMITH . W. C. BARRETT . GEO, J. FRIEDRICHS GEO, H. CUSHING . A. M. DUDLEY . W. H. GODDARD . NEW YORK, JULY, 1888 H. A. SMITH . W. C. BARRETT . GEO, J. FRIEDRICHS GEO, J. FRIEDRICHS C. N. CUSHING . A. W. HARLAN . GEO, W. KEELY . GARA FALLS, AUGUST, E. T. DARBY . C. S. STOCKTON .	L. D. SHEPARD	H. J. MCKELLOPS L. D. SHEPARD GRO. H. CUSHING GRO. H. CUSHING W. H. GODDARD GARA FALLS, AUGUST, 1879. L. D. SHEPARD GRO. H. GODDARD GRO. H. CUSHING W. H. GODDARD BOSTON, AUGUST, 1860. C. N. PEIRCE W. H. GODDARD BOSTON, AUGUST, 1860. C. N. PEIRCE W. C. BARRETT GEO. J. FRIEDRICHS GEO. H. CUSHING NEW YOKK, JULY, 1881. H. A. SMITH W. C. BARRETT GEO. J. FRIEDRICHS GEO. J. FRIEDRICHS GEO. H. CUSHING A. M. DUDLEY W. C. BARRETT GEO. J. FRIEDRICHS GEO. H. CUSHING A. M. DUDLEY W. H. GODDARD CINCINNATI, AUGUST, 1882. W. H. GODDARD CINCINNATI, AUGUST, 1882. W. H. GODDARD GEO. J. FRIEDRICHS GEO. H. CUSHING A. W. HARLAN GEO. W. KEELY GARA FALLS, AUGUST, 1883. E. T. DAREY C. S. STOCKTON

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SARATOGA SPRINGS, AUGUST, 1884.

SARA	TOGA SPRINGS, AUGUST	r, 188	s4.	
President,	J. N. CROUSE .		- 1	Chicago, Ill.
1st Vice-President,	M. W. FOSTER .		<u>,</u> `	Baltimore, Md.
2d Vice-President,	С. F. Rich		•	Saratoga, N. Y.
Recording Secretary,	GEO. H. CUSHING	-		Chicago, Ill.
Corresponding Secretary,	A. W. HARLAN	æ	12	Chicago, Ill.
Treasurer,	GEO. W. KEELY .			Oxford, Ohio.
. Mi	INNEAPOLIS, AUGUST, I	885.		
President,	W. C. BARRETT .	6085500. 	1	Buffalo, N. Y.
1st Vice-President,	L. C. INGERSOLL .	÷.		Keokuk, Iowa.
2d Vice-President.	А. Т. SMITH .	Sk	2	Minneapolis, Minn.
Recording Secretary,	GEO. H. CUSHING			Chicago, Ill.
Corresponding Secretary,				Chicago, Ill.
Treasurer,	GEO. W. KEELY .		C.	Oxford, Ohio.
	NIAGARA FALLS, 1886			
President,	W. W. ALLFORT .	8	2	Chicago, Ill.
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2d Vice-President.	S. W. DENNIS			San Francisco, Cal.
Recording Secretary,	GEO. H. CUSHING	8 -	ð.	Chicago, Ill.
Corresponding Secretary,		8	1	Chicago, Ill.
Treasurer,	GEO. W. KEBLY .		а. ж	Oxford, Ohio.
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President,	FRANK ABBOTT .			New York City,
1st Vice-President,	CHARLES R. BUTLER		1	Cleveland, Ohio.
2d Vice-President,	T. SOLLERS WATERS			Baltimore, Md.
Recording Secretary,	GEO. H. CUSHING		а 4	Chicago, Ill,
Corresponding Secretary,	그 것은 것이 같아요 여름 것은 것이 같은 것이 같아요. 것이 같아요. 것이 같아요			Orange, N. J.
Treasurer,	GEO. W. KEELY .		8	Oxford, Ohio.
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177	LOUISVILIE, KV., 1888	5.		50 0 N 200
President,	C. R. BUTLER ,	÷.	9	Cleveland, Ohio.
1st Vice-President,	A. W. HARLAN .	8.0		Chicago, Ill.
2d Vice-President,	SAMUEL A. WHITE	18		
Recording Secretary,	GEO. H. CUSHING	12	22	Chicago, Ill.
Corresponding Secretary,	FRED. A. LEVY .	Q	2	Orange, N. J.
Treasurer,	A. H. FULLER .	*	1	St. Louis, Mo.
5	SARATOGA SPRINGS, 18	89.		
President,	M. W. FOSTER .		3	Baltimore, Md.
1st Vice-President,	A. W. HARLAN .	*	x	Chicago, Ill.
	NAMES - NO PERSONAL POST OF BUILDING - 188			Kansas City, Mo.
2d Vice-President,	J. D. PATTERSON .			TROUGHT COLONY
2d Vice-President, Recording Secretary,	J. D. PATTERSON . GEO. H. CUSHING		÷.	Chicago, Ill.
	GEO. H. CUSHING			

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