

	The 2019 IEEE MTT-S International Microwave Symposium 2-7 June 2019 Boston, MA
DATES OF EVENT: Conference: Exhibits:	June 2 - 7, 2019 June 4 - 6, 2019 Boston Convention & Exhibition Center, Boston, Massachusetts
EVENT PRODUCER/MANAGER: Company Name: Address: Phone: Website (Show):	Institute for Electrical & Electronics Engineers – Microwave Theory and Techniques Society (IEEE MTT-S) 1721 Boxelder St. Ste. 107 Louisville, CO 80027 (303) 530-4562 www.ims-ieee.org
REGISTRATION COMPANY: YEAR EVENT ESTABLISHED: FREQUENCY: DATES OF NEXT EVENT: Conference: Exhibits: LOCATION:	MP Associates, Inc. 1959 Annual

1. STATEMENT OF MARKET SERVED

Engineers and researchers developing technologies to support wireless communication, radar, RF technologies, high frequency semiconductors, electromagnetics, commercial and military RF, microwave and mm-wave electronics and applications. Qualified attendees include senior management, engineering management, engineers, and R & D personnel employed in the private sector or by the government/military.

2. STATEMENT OF VERIFICATION METHODOLOGY

All badges were printed on site, at which point the attendee was entered into the system as verified.

3. AUDITED ATTENDEE ANALYSIS

YEAR EVENT HELD	EVENT LOCATION	TOTAL CONFERENCE ATTENDEES	TOTAL EXHIBITS ONLY ATTENDEES	SUB-TOTAL CONFERENCE & EXHIBITS ONLY ATTENDEES	SPEAKERS*	MEDIA	EXHIBITORS, NON- EXHIBITING SPONSORS AND THEIR SUPPORT STAFF**	Total
2011	Baltimore	2,294	1,907	4,201		31	4,220	8,421
2012	Montreal	2,599	1,463	4,062		35	3,568	7,665
2013	Seattle	2,312	1,395	3,707		38	3,760	7,505
2014	Tampa	2,370	1,443	3,813		37	3,828	7,678
2015	Phoenix	2,889	1,701	4,590		57	3,993	8,640
2016	San Francisco	2,884	2,695	5,579		61	4,365	10,005
2017	Honolulu	2,154	712	2,866		30	2,530	5,426
2018	Philadelphia	2,635	1,757	4,392		36	4,009	8,437
2019	Boston	2,767	2,262	5,029		32	4,412	9,473

* Included as Conference Attendees. ** Not audited. Count supplied by Show Management.



4. PRIMARY END PRODUCT/SERVICE

PRIMARY END PRODUCT/SERVICE	TOTAL ATTENDEES	PERCENT OF TOTAL	PERCENT PROVIDING PRIMARY END PRODUCT
Communication Systems, Equipment	726	14.4	15.3
Wireless (WiFi, WiMAX, UWB, other)	283	5.6	6.0
Government - Military	355	7.1	7.5
Government - Other	71	1.4	1.5
Defense Electronics	467	9.3	9.8
Medical Electronics	85	1.7	1.8
Navigation/Telemetry/GPS Systems	17	0.3	0.4
Industrial Automation/Control Systems	44	0.9	0.9
Transportation (Automotive/Aviation)	51	1.0	1.1
Consumer Electronics	91	1.8	1.9
Computers or Peripherals	11	0.2	0.2
Test & Measurement	380	7.6	8.0
Components/Hardware	450	8.9	9.5
RF/HF Front-End Modules	555	11.0	11.7
Data Transmission	25	0.5	0.5
Semiconductors & ICs	774	15.4	16.3
Materials	149	3.0	3.1
Services	72	1.4	1.5
Software (EDA/CAD/CAM etc.)	97	1.9	2.0
Retiree	42	0.8	0.9
Total Conference and Exhibit Only Attendees Providing this Information	4,745	94.4	100.0
Total Conference and Exhibit Only Attendees Not Providing this Information	284	5.6	
TOTAL CONFERENCE AND EXHIBIT ONLY ATTENDEES	5,029	100.0	100.0

5. PRIMARY JOB FUNCTION

PRIMARY JOB FUNCTION	TOTAL ATTENDEES	PERCENT OF TOTAL	PERCENT PROVIDING PRIMARY JOB FUNCTION
Executive/Senior Management	728	14.5	15.1
Executive/Senior Technology Development	212	4.2	4.4
Engineering Management	308	6.1	6.4
Design Engineering	832	16.5	17.2
Engineering Services	115	2.3	2.4
Manufacturing / Production Engineering	145	2.9	3.0
Application Engineer	202	4.0	4.2
Procurement / Purchasing	51	1.0	1.1
Professor / Research - Academic	494	9.8	10.2
Research & Development - Government	164	3.3	3.4
Research & Development - Industry	377	7.5	7.8
Student	564	11.2	11.7
Financial or Industry Analyst	23	0.5	0.5
Editor / Publisher	3	0.1	0.1
Marketing / Sales	504	10.0	10.4
Consultant	72	1.4	1.5
Retiree	38	0.8	0.8
Total Conference and Exhibit Only Attendees Providing this Information	4,832	96.1	100.0
Total Conference and Exhibit Only Attendees Not Providing this Information	197	3.9	
TOTAL CONFERENCE AND EXHIBIT ONLY ATTENDEES	5,029	100.0	100.0



PRODUCTS AND/OR SERVICES YOU RECOMMEND, PURCHASE, OR INFLUENCE THE PURCHASE OF	TOTAL ATTENDEES	PERCENT PROVIDING PURCHASE INFORMATION
Active Components	2,054	41.5
Antennas	1,299	26.3
Control Components	680	13.8
Materials	1,054	21.3
Manufacturing Equipment	487	9.9
Optoelectronics & Fiber-Optics	390	7.9
Passive Components	2,035	41.2
Semiconductors/Integrated Circuits	1,836	37.1
Services	507	10.3
Signal Processing Components	574	11.6
Software & CAD	1,056	21.4
Subsystems & Systems	963	19.5
Test Equipment and Instruments	1,689	34.2
Transmission-Line Components	755	15.3
Consultant Services	365	7.4
Not Applicable	864	17.5
Total Conference and Exhibit Only Attendees Providing this Information	4,944	100.0
Total Conference and Exhibit Only Attendees Not Providing this Information	85	
TOTAL CONFERENCE AND EXHIBIT ONLY ATTENDEES	5,029	100.0

6. PRODUCTS AND/OR SERVICES YOU RECOMMEND, PURCHASE, OR INFLUENCE THE PURCHASE OF

Multiple responses allowed, hence total number of responses exceeds the total attendance and category counts should not be added together.

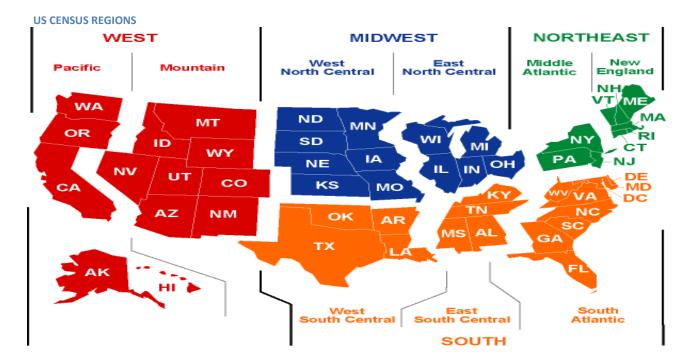
7. FREQUENCY RANGE OF YOUR PRIMARY WORK

FREQUENCY RANGE OF PRIMARY WORK	TOTAL ATTENDEES	PERCENT OF TOTAL	PERCENT PROVIDING FREQUENCY RANGE
RF	3,600	71.6	73.7
Microwave	3,237	64.4	66.3
Millimeter-wave	2,450	48.7	50.2
Terahertz	497	9.9	10.2
Other	328	6.5	6.7
Total Conference and Exhibit Only Attendees Providing this Information	4,885	97.1	100.0
Total Conference and Exhibit Only Attendees Not Providing this Information	144	2.9	
TOTAL CONFERENCE AND EXHIBIT ONLY ATTENDEES	5,029	100.0	100.0



8. AUDITED GEOGRAPHIC BREAKOUT OF CONFERENCE AND EXHIBIT ONLY ATTENDEES

STATE	TOTAL	PERCENT	STATE	TOTAL	PERCENT
NEW ENGLAND	1,534	42.27%	EAST SOUTH CENTRAL	17	0.47%
Maine	37		Kentucky	3	
New Hampshire	194		Tennessee	5	
Vermont	18		Alabama	9	
Massachusetts	1176		Mississippi	0	
Rhode Island	32		WEST SOUTH CENTRAL 166	141	3.89%
Connecticut	77		Arkansas	1	
MIDDLE ATLANTIC	434	11.96%	Louisiana	0	
New York	217		Oklahoma	10	
New Jersey	142		Texas	130	
Pennsylvania	75		MOUNTAIN	165	4.55%
EAST NORTH CENTRAL	168	4.63%	Montana	1	
Ohio	49		Idaho	1	
Indiana	33		Wyoming	0	
Illinois	45		Colorado	63	
Michigan	34		New Mexico	8	
Wisconsin	7		Arizona	81	
WEST NORTH CENTRAL	56	1.54%	Utah	5	
Minnesota	34		Nevada	6	
Iowa	14		PACIFIC	707	19.48%
Missouri	4		Alaska	0	
North Dakota	1		Washington	35	
South Dakota	0		Oregon	37	
Nebraska	0		California	626	
Kansas	3		Hawaii	9	
SOUTH ATLANTIC	407	11.22%	UNITED STATES	3.629	72.16
Delaware	18				
Maryland	93		INTERNATIONAL	1.400	27.84
District of Columbia	9		Canada	135	2.68
Virginia	70		Mexico	3	0.06
West Virginia	2		Outside North America	1,262	25.09
North Carolina	64				
South Carolina	4		Not Providing this Information		
Georgia	54		Total Conference & Exhibit Only Attendees	5,029	100.00
Florida	93				100.00





COUNTRY	CODE	TOTAL	PERCENT	COUNTRY	CODE	TOTAL	PERCENT
Netherlands Antilles	AN	2	0.04	Korea, Democratic People's Republic of	KP	2	0.04
Austria	AT	16	0.32	Korea, Republic of	KR	123	2.45
Australia	AU	15	0.30	Latvia	LV	1	0.02
Belgium	BE	19	0.38	Malaysia	MY	1	0.02
Brazil	BR	3	0.06	Netherlands	NL	38	0.76
Switzerland	СН	12	0.24	Norway	NO	1	0.02
China	CN	112	2.23	New Zealand	NZ	1	0.02
Czech Republic	CZ	3	0.06	Peru	PE	1	0.02
Germany	DE	151	3.00	Philippines	PH	4	0.08
Denmark	DK	6	0.12	Poland	PL	16	0.32
Egypt	EG	3	0.06	Portugal	PT	10	0.20
Spain	ES	28	0.56	Serbia	RS	1	0.02
Finland	FI	23	0.46	Russian Federation	RU	9	0.18
France	FR	93	1.85	Saudi Arabia	SA	4	0.08
United Kingdom	GB	65	1.29	Sweden	SE	42	0.84
Greece	GR	2	0.04	Singapore	SG	13	0.26
Hong Kong	HK	12	0.24	Slovenia	SI	2	0.04
Ireland	IE	9	0.18	Thailand	TH	1	0.02
Israel	IL	56	1.11	Turkey	TR	15	0.30
India	IN	32	0.64	Taiwan, Province of China	TW	87	1.73
Iraq	IQ	1	0.02	Ukraine	UA	2	0.04
Italy	IT	50	0.99	Viet Nam	VN	7	0.14
Jordan	JO	4	0.08	South Africa	ZA	7	0.14
Japan	JP	157	3.12				
			TOTAL Confe	rence & Exhibit Attendance Outside North	America	1,262	100.00
				TOTAL North	n America	3,767	74.91
				Not Providing this In	formation		
				Total Conference & Exhibit Att	endance	5,029	100.00

8A. AUDITED BREAKOUT OF ALL CONFERENCE AND EXHIBITS ONLY ATTENDEES OUTSIDE NORTH AMERICA



REGISTRATION FORM: page 1

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The 2019 IEEE MTT-S **International Microwave Symposium**

2 - 7 June 2019, Boston, MA

FIC - ARFTO	G REGISTRA	TION FORM
Boston Convent	ion Center, Bostoi	n, MA
	d 31 May,	by mail: IMS2019 Registration, MP Associates, Inc. 1721 Boxelder St. Suite 107 Louisville, CO 80027 USA
š	Last Name	
	Title	
City		Mail Georg
City		Mail Stop
Country		
	Secondary Email	
EEE Membership #	Student ID #	Member of: O MTT-S O ARFTG
2		
 212 Test & Measu 213 Components 214 RF/HF Front- 215 Data Transm 216 Semiconduci 217 Materials 218 Services 219 Software (EI 220 Retiree 3) Which products following areas or influence the (Answer all that appl) 301 Active Comp 302 Antennas 303 Control Com 304 Materials 305 Manufacturi 306 Optoelectroi 307 Passive Com 308 Semiconduci 309 Services 310 Signal Proce 313 Test Equipm 314 Transmission 	urement //Hardware End Modules ission tors & Ics DA/CAD/CAM) is and/or services in the s do you recommend, purchase e purchase of? (y) onents ponents ponents ing Equipment nics & Fiber-Optics ponents tors/Integrated Circuits ssing Components CAD & Systems ent and Instruments 1-Line Components	 4) At what frequency is your primary work? 401 RF 402 Microwave 403 Millimeter-wave 404 Terahertz 405 Other
	Boston Convent	Last Name Last Name City Country Count

IMS provides an email list of attendees to exhibitors. If you do NOT want to receive this correspondence, check here: 🖵





REGISTRATION FORM: page 2

4 Registration Pricing	Early Bird (1 Feb - 6 May) IEEE or ARFTG Membership				Advance (7 - 31 May) IEEE or ARFIG Membership				
Superpass IMS, RFIC, and ARFTG, ONE full-day workshop (or half-day workshops, to equal one full-day), Electronic Proceedings: IMS, RFIC, ARFTG, AND	Member	IEEE Life Member Retiree) or Student IEEE Member	Non-Member	Student Non-Member	Member	IEEE Life Member (Retiree) or Student IEEE Member	Non-Member	Student Non-Member	Cost
Workshops, Awards Banquet	Q\$1130	Q\$500	O\$1700	O \$750	Q\$1310	O \$580	Q\$1970	O \$870	\$
MS	\$1000000 p.r.o					11 # 10 # 10 # 10 # 10 # 10 # 10	N. C. S. M. CONTRACTOR	10000000000000000000000000000000000000	107.7
IMS Sessions	O \$495	O\$120	O\$745	O\$180	O\$575	O\$140	O\$860	O\$210	\$
Single Day Registration Select day: O Tuesday O Wednesday O Thursda	Q\$250 v		Q\$375		O\$290		Q\$435		\$
RFIC Symposium	,								
RFIC Sessions	O\$265	O \$150	O\$400	O \$225	Q\$305	O \$175	O \$460	O\$260	\$
ARFTG Conference ARFTG Sessions	O \$275	Q \$160	Q\$415	O \$240	€\$320	O \$185	Q\$480	O\$280	\$
Exhibition Exhibition Only Pass (Tuesday - Thursday)	Q\$30	O \$30	\$ \$30	Q\$30	Q\$30	Q\$30	O \$30	Q\$30	\$
Wednesday Exhibition Only Pass	FREE	FREE	FREE	FREE	FREE	FREE	FREE	FREE	\$
Guest Badge									
Guest Lounge:	Q\$50	O \$50	Q\$50	O\$50	Q\$50	Q\$50	Q\$50	O\$50	\$
Guest Information:	FREE	FREE	FREE	FREE	FREE	FREE	FREE	FREE	\$
rst Name	Last N	ame			Email				
6G Summit	Q\$195	O\$150	O\$290	O \$230	O\$230	O\$170	Q\$340	O\$260	
RF Boot Camp	O\$120	O\$120	O\$180	O\$180	O\$140	O \$140	O\$210	O\$210	
5 Workshops and Short Courses Pleas	a coloct from t	he following:							
all Day Workshops: OWSA OWSB OWSC O OWFA OWFB OWFC O	OWSE OWSF	OWSG OWSH	Owsi Owsj	OWSK OWSL O	WSM QWMA	OWMB OWMC O	WMD OWME		MWO LMWC
alf Day Workshops: OWSD OWMG OWMH	OWFG OW	FH							
ull Day Short Course: OSSA OSSB OSMA									Cost
ull Day Workshops	#\$190	#\$100	#\$290	#\$155	#\$220	0 #\$120	#\$330	#\$180	\$
alf Day Workshops	#\$95	#\$50	#\$145		#\$110		#\$165	611 (* 1915) N	\$
ull Day Short Course	#\$330	#\$150	#\$495		#\$38!		#\$575		\$
Full day workshops or equivalent - Judes All 3 Days of Workshop Electronic Proceedings (Distributed Viathe Cloud)	#\$495	#\$360	#\$740	#\$540	#\$570	0 #\$420	#\$860	#\$630	\$



REGISTRATION FORM: page 3

6 Extra Proceedings & Digests	Early Bird (1 Feb - 6 May)					Advance (7 - 31 May)				
	IEEE or ARF Member	TG Membership IEEE Life Member (Retiree) or Student IEEE Member	Non-Member	Student Non- Member	IEEE or AKFI Member	G Membership IEEE Life Member (Retiree) or Student IEEE Member	Non-Member	Student Non-Member	Cost	
IMS - Electronic (Distributed Via the Cloud)	Q\$50	Q\$50	Q\$80	Q\$80	O \$60	O\$60	Q\$90	Q\$90	\$	
RFIC - Electronic (Distributed Via the Cloud) ARFTG - Electronic (Distributed Via the Cloud)	○\$50 ○\$50	○\$50 ○\$50	○\$80 ○\$80	○\$80 ○\$80	○\$60 ○\$60	○\$60 ○\$60	○\$90 ○\$90	○\$90 ○\$90	\$ \$	
7 Events Awards Banquet (Wednesday Night) RFIC Sunday Evening (includes plenary session industry showcase & reception)	#\$75 , #\$50		#\$75 #\$80	#\$75 #\$80	#\$75 #\$60	#\$75 #\$60	#\$75 #\$90	#\$75 #\$90	\$ \$	
8 Lunch Mon Tues Wed Thurs Boxed Lunches O O O O	#\$20		#\$30		#\$25		#\$35		\$	
9 Card Number		E	xpiration Date	1	Total Rem	ittance: \$	÷			
OMasterCard OVisa OAme	rican Express	Security Code		Signature: _						
O Submit via Fax or Mail to: Make checks payable to: MTTS-IMS2019						s received on or befor 19 will NOT be honore				

IMS2019 Fax registrations accepted with credit
 Attn: Registration Desk
 card payment only!

 1721 Boxelder St., Ste 107
 Phone Number: +1(303) 530-4562

 Louisville, C0 80027 USA
 Fax Number: +1(303) 530-4334

honored. Cancellations received after 6 May, 2019 will NOI be honored and all registration fee will be forfield. After 24 May, 2019 faxed registrations will not be accepted in office. You MUST register on-site. TELEPHONE REGISTRATIONS WILL NOT BE ACCEPTED! ANY REGISTRATION WITOUT PAYMENT WILL BE DISCARDED! If payment is received from a non-US bank, attendees will be charged a collection fee of \$45.00.



STATEMENT OF CERTIFICATION - AUDIT CONDUCTED BY AUDIENCE INSIGHTS

We have carefully examined the attendee records of the 2019 IEEE MTT-S International Microwave Symposium held in Boston, MA. The audit process includes pre-event review of the registration and event access process, post event confirmations of attendance and attendee demographics, examination of accounting records, and any other auditing procedures considered appropriate or necessary. This audit complies with the standards set forth by the Exhibition and Event Industry Audit Commission (EEIAC), a not for profit commission organized for the purpose of managing and overseeing the exhibition industry's independent audit process.

Based on our review and analysis, the statements set forth in this report fairly and accurately present the total attendance of this event in conformance with generally accepted event measurement practices.

Audience Insights

Framingham, MA