

EVENT AUDIT

2017 IEEE MTT-S International Microwave Symposium



DATES OF EVENT:

Conference: June 4 – 9, 2017

Exhibits: June 6 – 8, 2017

LOCATION:

Hawaii Convention Center, Honolulu, HI 96815

EVENT PRODUCER/MANAGER:

Company Name: Institute for Electrical & Electronics Engineers – Microwave Theory and Techniques Society (IEEE MTT-S)

Address: 1721 Boxelder St. Ste. 107
Louisville, CO 80027

Phone: (303) 530-4562

Website (Show): www.ims2016.org

REGISTRATION COMPANY:

MP Associates, Inc.

YEAR EVENT ESTABLISHED:

1959

FREQUENCY:

Annual

DATES OF NEXT EVENT:

Conference: June 10 - 15, 2018

Exhibits: June 12 - 14, 2018

LOCATION:

Pennsylvania Convention Center, Philadelphia, PA 19107

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

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

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4. PRIMARY END PRODUCT/SERVICE

PRIMARY END PRODUCT/SERVICE	TOTAL ATTENDEES	PERCENT OF TOTAL	PERCENT PROVIDING PRIMARY END PRODUCT
Communication Systems, Equipment	422	14.7	15.7
Wireless (WiFi, WiMAX, UWB, other)	212	7.4	7.9
Government - Military	129	4.5	4.8
Government - Other	66	2.3	2.5
Defense Electronics	136	4.7	5.1
Medical Electronics	68	2.4	2.5
Navigation/Telemetry/GPS Systems	25	0.9	0.9
Industrial Automation/Control Systems	32	1.1	1.2
Transportation (Automotive/Aviation)	14	0.5	0.5
Consumer Electronics	59	2.1	2.2
Computers or Peripherals	10	0.3	0.4
Test & Measurement	194	6.8	7.2
Components/Hardware	214	7.5	8.0
RF/HF Front-End Modules	411	14.3	15.3
Data Transmission	17	0.6	0.6
Semiconductors & ICs	479	16.7	17.9
Materials	36	1.3	1.3
Services	47	1.6	1.8
Software (EDA/CAD/CAM etc.)	70	2.4	2.6
Retiree	40	1.4	1.5
Total Conference and Exhibit Only Attendees Providing this Information	2,681	93.5	100.0
Total Conference and Exhibit Only Attendees Not Providing this Information	215	6.5	--
TOTAL CONFERENCE AND EXHIBIT ONLY ATTENDEES	2,866	100.0	100.0

5. PRIMARY JOB FUNCTION

PRIMARY JOB FUNCTION	TOTAL ATTENDEES	PERCENT OF TOTAL	PERCENT PROVIDING PRIMARY JOB FUNCTION
Executive/Senior Management	275	9.6	10.0
Executive/Senior Technology Development	101	3.5	3.7
Engineering Management	177	6.2	6.5
Design Engineering	345	12.0	12.6
Engineering Services	64	2.2	2.3
Manufacturing/Production Engineering	22	0.8	0.8
Application Engineer	68	2.4	2.5
Procurement/Purchasing	23	0.8	0.8
Professor / Research - Academic	520	18.1	19.0
Research & Development - Government	141	4.9	5.1
Research & Development - Industry	233	8.1	8.5
Student	530	18.5	19.3
Financial or Industry Analyst	7	0.2	0.3
Editor/Publisher	1	0.0	0.0
Marketing/Sales	165	5.8	6.0
Consultant	34	1.2	1.2
Retiree	35	1.2	1.3
Total Conference and Exhibit Only Attendees Providing this Information	2,741	95.6	100.0
Total Conference and Exhibit Only Attendees Not Providing this Information	125	4.4	--
TOTAL CONFERENCE AND EXHIBIT ONLY ATTENDEES	2,866	100.0	100.0

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

PRODUCTS AND/OR SERVICES YOU RECOMMEND, PURCHASE, OR INFLUENCE THE PURCHASE OF	TOTAL ATTENDEES	PERCENT PROVIDING PURCHASE INFORMATION
Active Components	1,150	40.8
Antennas	768	27.2
Control Components	303	10.7
Materials	483	17.1
Manufacturing Equipment	222	7.9
Optoelectronics & Fiber-Optics	190	6.7
Passive Components	1,174	41.6
Semiconductors/Integrated Circuits	1,018	36.1
Services	222	7.9
Signal Processing Components	304	10.8
Software & CAD	667	23.7
Subsystems & Systems	491	17.4
Test Equipment and Instruments	1,008	35.8
Transmission-Line Components	497	17.6
Consultant Services	172	6.1
Not Applicable	538	18.0
Total Conference and Exhibit Only Attendees Providing this Information	2,819	98.4
Total Conference and Exhibit Only Attendees Not Providing this Information	47	1.6
TOTAL CONFERENCE AND EXHIBIT ONLY ATTENDEES	2,866	100.0

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	1,975	68.9%	71.4%
Microwave	1,885	65.8%	68.1%
Millimeter-wave	1,418	49.5%	51.3%
Terahertz	377	13.2%	13.6%
Other	172	5.7%	5.9%
Total Conference and Exhibit Only Attendees Providing this Information	2,775	96.5	100.0
Total Conference and Exhibit Only Attendees Not Providing this Information	121	3.5	--
TOTAL CONFERENCE AND EXHIBIT ONLY ATTENDEES	2,866	100.0	100.0

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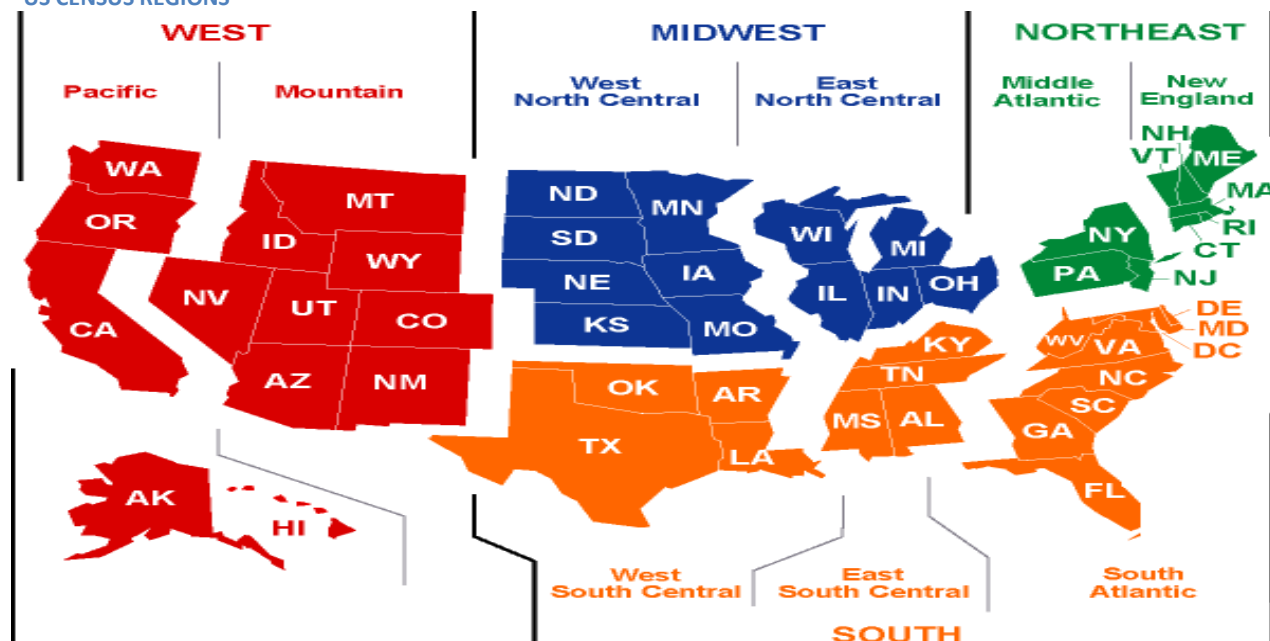


8. AUDITED GEOGRAPHIC BREAKOUT OF CONFERENCE AND EXHIBIT ONLY ATTENDEES

STATE	TOTAL	PERCENT
NEW ENGLAND	108	3.77
Maine	0	
New Hampshire	12	
Vermont	3	
Massachusetts	87	
Rhode Island	3	
Connecticut	3	
MIDDLE ATLANTIC	102	3.56
New York	40	
New Jersey	36	
Pennsylvania	27	
EAST NORTH CENTRAL	81	2.83
Ohio	19	
Indiana	20	
Illinois	19	
Michigan	22	
Wisconsin	1	
WEST NORTH CENTRAL	24	0.84
Minnesota	12	
Iowa	9	
Missouri	1	
North Dakota	1	
South Dakota	0	
Nebraska	0	
Kansas	1	
SOUTH ATLANTIC	198	6.91
Delaware	2	
Maryland	37	
District of Columbia	15	
Virginia	33	
West Virginia	0	
North Carolina	41	
South Carolina	3	
Georgia	32	
Florida	35	

STATE	TOTAL	PERCENT
EAST SOUTH CENTRAL	15	0.52
Kentucky	0	
Tennessee	5	
Alabama	10	
Mississippi	0	
WEST SOUTH CENTRAL	100	3.49
Arkansas	1	
Louisiana	0	
Oklahoma	3	
Texas	96	
MOUNTAIN	117	4.08
Montana	0	
Idaho	2	
Wyoming	0	
Colorado	44	
New Mexico	15	
Arizona	48	
Utah	7	
Nevada	1	
PACIFIC	809	28.23
Alaska	0	
Washington	28	
Oregon	32	
California	552	
Hawaii	197	
UNITED STATES	1,554	54.22
INTERNATIONAL	1,312	45.78
Canada	94	3.28
Mexico	2	.07
Outside North America	1,216	42.43
Not Providing this Information	--	--
Total Conference & Exhibit Only Attendees	2,866	100.00

US CENSUS REGIONS



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

COUNTRY	CODE	TOTAL	PERCENT	COUNTRY	CODE	TOTAL	PERCENT
Argentina	AR	1	0.03	Malaysia	MY	1	0.03
Australia	AU	20	0.70	Netherlands	NL	38	1.33
Austria	AT	27	0.94	Netherlands Antilles	AN	1	0.03
Belarus	BY	1	0.03	New Zealand	NZ	3	0.10
Belgium	BE	20	0.70	Norway	NO	1	0.03
Brazil	BR	5	0.17	Peru	PE	1	0.03
China	CN	182	6.35	Philippines	PH	10	0.35
Czech Republic	CZ	4	0.14	Poland	PL	5	0.17
Denmark	DK	2	0.07	Portugal	PT	8	0.28
Egypt	EG	1	0.03	Qatar	QA	1	0.03
Finland	FI	8	0.28	Russian Federation	RU	11	0.38
France	FR	73	2.55	Saudi Arabia	SA	2	0.07
Germany	DE	128	4.47	Singapore	SG	15	0.52
Greece	GR	1	0.03	South Africa	ZA	5	0.17
Hong Kong	HK	15	0.52	Spain	ES	28	0.98
Hungary	HU	1	0.03	Sweden	SE	58	2.02
India	IN	6	0.21	Switzerland	CH	5	0.17
Ireland	IE	11	0.38	Taiwan, Province of China	TW	86	3.00
Israel	IL	28	0.98	Thailand	TH	2	0.07
Italy	IT	34	1.19	Tunisia	TN	1	0.03
Japan	JP	156	5.44	Turkey	TR	13	0.45
Korea, North	KP	4	0.14	United Arab Emirates	AE	1	0.03
Korea, South	KR	142	4.95	United Kingdom	GB	49	1.71
Macao	MO	1	0.03				
TOTAL Conference & Exhibit Attendance Outside North America						1,216	42.43
TOTAL North America						1,650	57.57
Not Providing this Information						--	--
Total Conference & Exhibit Attendance						2,866	100.00

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REGISTRATION FORM: page 1



The 2017 IEEE MTT-S
International Microwave Symposium
4-9 June 2017 Honolulu, HI

IMS - RFIC - ARFTG REGISTRATION FORM

Honolulu, Hawai'i

- 1** All Early Bird and Advance registration must be received by 8 May and 20 May, respectively, for appropriate costs to apply.
by fax: +1 (303) 530-4334

by mail: IMS 2017 Registration, MP Associates, Inc.
1721 Boxelder St. Suite 107
Louisville, CO 80027 USA

2 Attendee Information

First Name

Last Name

Company

Title

Street

City

Mail Stop

State

Postal Code

Country

Email

Secondary Email

Telephone

IEEE Membership #

Student ID #

Member of: ☐ MTT-S ☐ ARFTG

3 Attendee Survey

- 1) What is your principal job function?
- ☐ 101 Executive/Senior Management
 - ☐ 102 Engineering Management
 - ☐ 103 Design Engineering
 - ☐ 104 Executive/Senior Technology Development
 - ☐ 105 Engineering Services
 - ☐ 106 Manufacturing/Production Engineering
 - ☐ 107 Application Engineer
 - ☐ 108 Procurement/Purchasing
 - ☐ 109 Professor/Research - Academic
 - ☐ 110 Research & Development - Government
 - ☐ 111 Research & Development - Industry
 - ☐ 112 Student
 - ☐ 113 Financial or Industry Analyst
 - ☐ 114 Editor/Publisher
 - ☐ 115 Marketing/Sales
 - ☐ 116 Consultant
 - ☐ 117 Retiree
- 2) What primary end product or service do you work on?
- ☐ 201 Communication systems, equipment
 - ☐ 202 Wireless (WiFi, WiMAX, UWB)
 - ☐ 203 Government - Military
 - ☐ 204 Government - Other
 - ☐ 205 Defense Electronics
 - ☐ 206 Medical Electronics
 - ☐ 207 Navigation/telemetry/GPS systems
 - ☐ 208 Industrial automation/control systems
 - ☐ 209 Transportation (Automotive/Aviation)
 - ☐ 210 Consumer Electronics

- ☐ 211 Computers or peripherals
- ☐ 212 Test & Measurement
- ☐ 213 Components/Hardware
- ☐ 214 RF/HF Front-End Modules
- ☐ 215 Data Transmission
- ☐ 216 Semiconductors & ICs
- ☐ 217 Materials
- ☐ 218 Services
- ☐ 219 Software (EDA/CAD/CAM)
- ☐ 220 Retiree

- 3) Which products and/or services in the following areas do you recommend, purchase or influence the purchase of?

(Answer all that apply)

- ☐ 301 Active Components
- ☐ 302 Antennas
- ☐ 303 Control Components
- ☐ 304 Materials
- ☐ 305 Manufacturing Equipment
- ☐ 306 Optoelectronics & Fiber-Optics
- ☐ 307 Passive Components
- ☐ 308 Semiconductors/Integrated Circuits
- ☐ 309 Services
- ☐ 310 Signal Processing Components
- ☐ 311 Software & CAD
- ☐ 312 Subsystems & Systems
- ☐ 313 Test Equipment and Instruments
- ☐ 314 Transmission-Line Components
- ☐ 315 Consultant Services
- ☐ 316 Not Applicable

- 4) At what frequency is your primary work?

- ☐ 401 RF
- ☐ 402 Microwave
- ☐ 403 Millimeter-wave
- ☐ 404 Terahertz
- ☐ 405 Other

- 5) Number of engineers in your organization

- ☐ 501 10 or fewer
- ☐ 502 11 to 40
- ☐ 503 41 to 100
- ☐ 504 More than 100

- 6) Is this the first time you have attended International Microwave Week?

- ☐ 601 Yes
- ☐ 602 No

- 7) Are you an MTT member?

- ☐ 701 Yes
- ☐ 702 No

- 8) Did you graduate with your first professional degree within the last 15 years?

- ☐ 801 Yes
- ☐ 802 No

- 9) Would you like to be contacted by MTT-S to provide you with information on opportunities available to Young Professionals?

- ☐ 901 Yes
- ☐ 902 No

Would you like to receive emails from:

- ☐ IEEE and MTT-S ☐ Industry

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

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REGISTRATION FORM: page 2

4 Registration Pricing

Superpass
IMS, RFIC, and ARFTG, ONE full-day workshop (or half-day workshops, to equal one full-day), Electronic Proceedings: IMS, RFIC, ARFTG, AND Workshops, Awards Banquet

Early Bird (6 Feb - 8 May)

IEEE or ARFTG Membership

Member ☐ \$1,090 ☐ \$650 ☐ \$1,090

IEEE Life Member (Retiree) or Student IEEE Member ☐ \$85 ☐ \$240 ☐ \$700 ☐ \$350

Student Non-Member ☐ \$670 ☐ \$1,645

Select day: ☐ Tuesday ☐ Wednesday ☐ Thursday

Advance (9 May - 2 June)

IEEE or ARFTG Membership

Member ☐ \$1,270 ☐ \$760 ☐ \$1,900

IEEE Life Member (Retiree) or Student IEEE Member ☐ \$95 ☐ \$280 ☐ \$815 ☐ \$405

Student Non-Member ☐ \$780 ☐ \$1,900

Cost

☐ \$ ☐ \$ ☐ \$

IMS

IMS Sessions

Single Day Registration

Select day: ☐ Tuesday ☐ Wednesday ☐ Thursday

☐ \$475 ☐ \$85 ☐ \$700 ☐ \$350

☐ \$145 ☐ \$145 ☐ \$145

☐ \$160 ☐ \$160 ☐ \$160

☐ \$ ☐ \$ ☐ \$

RFIC Symposium

RFIC Sessions

☐ \$255 ☐ \$180 ☐ \$360 ☐ \$200 ☐ \$290 ☐ \$200 ☐ \$420 ☐ \$220

☐ \$240 ☐ \$170 ☐ \$360 ☐ \$195 ☐ \$285 ☐ \$195 ☐ \$420 ☐ \$220

☐ \$ ☐ \$ ☐ \$

ARFTG Conference

ARFTG Sessions

☐ \$25 ☐ \$25 ☐ \$25 ☐ \$25 ☐ \$25 ☐ \$25 ☐ \$25

☐ FREE ☐ FREE ☐ FREE ☐ FREE ☐ FREE ☐ FREE ☐ FREE

☐ \$25 ☐ \$25 ☐ \$25 ☐ \$25 ☐ \$25 ☐ \$25 ☐ \$25

☐ FREE ☐ FREE ☐ FREE ☐ FREE ☐ FREE ☐ FREE ☐ FREE

☐ \$ ☐ \$ ☐ \$

Exhibition

Exhibition Only Pass (Tuesday - Thursday)

Wednesday Exhibition Only Pass

☐ \$25 ☐ \$25 ☐ \$25 ☐ \$25 ☐ \$25 ☐ \$25 ☐ \$25

☐ FREE ☐ FREE ☐ FREE ☐ FREE ☐ FREE ☐ FREE ☐ FREE

☐ \$25 ☐ \$25 ☐ \$25 ☐ \$25 ☐ \$25 ☐ \$25 ☐ \$25

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Guest Badge

Guest Information:

☐ FREE ☐ FREE ☐ FREE ☐ FREE ☐ FREE ☐ FREE ☐ FREE

☐ \$ ☐ \$ ☐ \$ ☐ \$ ☐ \$ ☐ \$ ☐ \$

First Name _____ Last Name _____ Email _____

5G Summit

☐ \$185 ☐ \$140 ☐ \$270 ☐ \$160 ☐ \$200 ☐ \$150 ☐ \$295 ☐ \$170

RF Boot Camp

☐ \$125 ☐ \$125 ☐ \$125 ☐ \$125 ☐ \$125 ☐ \$125 ☐ \$125

5 Workshops and Short Courses Please select from the following:

Full Day Workshops: ☐ WSA ☐ WSB ☐ WSC ☐ WSD ☐ WSE ☐ WSG ☐ WSH ☐ WSM ☐ WSN ☐ WSO ☐ WSR ☐ WSS ☐ WSV ☐ WMA ☐ WMC ☐ WMG ☐ WMI ☐ WMJ ☐ WMM ☐ WMM

Half Day Workshops: ☐ WSI ☐ WSJ ☐ WSK ☐ WSO ☐ WSP ☐ WST ☐ WSW ☐ WMB ☐ WMD ☐ WME ☐ WMF ☐ WMH ☐ WML ☐ WFC ☐ WFE ☐ WFH ☐ WFI ☐ WFM ☐ WFN ☐ WFS

Full Day Short Course: ☐ SSA ☐ SSC ☐ SSB

Half Day Short Course: ☐ SSB

Cost

☐ \$ ☐ \$ ☐ \$ ☐ \$ ☐ \$ ☐ \$ ☐ \$

2 Full day workshops or equivalent -
Includes All 3 Days of Workshop Electronic Proceedings (Distributed Via the Cloud)

☐ \$475 ☐ \$350 ☐ \$690 ☐ \$375 ☐ \$515 ☐ \$385 ☐ \$760 ☐ \$405

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REGISTRATION FORM: page 3

6 Extra Proceedings & Digests		Early Bird (6 Feb - 8 May)				Advance (9 May - 2 June)			
		IEEE or ARFTG Membership		IEEE Life Member (Retiree) or Student IEEE Member		IEEE or ARFTG Membership		IEEE Life Member (Retiree) or Student IEEE Member	
		Member	Non-Member	Student Non-Member	Member	Non-Member	Student Non-Member	Member	Non-Member
IMS - Electronic (Distributed Via the Cloud)		<input type="radio"/> \$50	<input type="radio"/> \$75	<input type="radio"/> \$75	<input type="radio"/> \$50	<input type="radio"/> \$75	<input type="radio"/> \$75	<input type="radio"/> \$60	<input type="radio"/> \$90
RFIC - Electronic (Distributed Via the Cloud)		<input type="radio"/> \$50	<input type="radio"/> \$75	<input type="radio"/> \$75	<input type="radio"/> \$50	<input type="radio"/> \$75	<input type="radio"/> \$75	<input type="radio"/> \$60	<input type="radio"/> \$90
ARFTG - Electronic (Distributed Via the Cloud)		<input type="radio"/> \$50	<input type="radio"/> \$75	<input type="radio"/> \$75	<input type="radio"/> \$50	<input type="radio"/> \$75	<input type="radio"/> \$75	<input type="radio"/> \$60	<input type="radio"/> \$90
7 Events									
Awards Banquet (Wednesday Night)									
RFIC Sunday Evening (includes plenary session, industry showcase & reception)									
8 Lunch									
Boxed Lunches <input type="radio"/> Mon <input type="radio"/> Tues <input type="radio"/> Wed <input type="radio"/> Thurs <input type="radio"/> Fri									
<div> <input type="radio"/> \$30 <input type="radio"/> \$30 <input type="radio"/> \$30 <input type="radio"/> \$30 <input type="radio"/> \$30 </div>									
9									
Card Number _____ Expiration Date _____ Total Remittance: \$ _____									
<input type="radio"/> MasterCard <input type="radio"/> Visa <input type="radio"/> American Express Security Code _____ Signature: _____									
10 Submit via Fax or Mail to:									
Make checks payable to: MTT-S-IMS2017 Fax registrations accepted with credit card payment only! Attn: Registration Desk 1721 Boxelder St., Ste 107 Phone Number: +1(303) 530-4562 Louisville, CO 80027 USA Fax Number: +1(303) 530-4334									

Refund Policy: Written requests for cancellations received on or before 8 May, 2017 will be honored. Cancellations received after 8 May, 2017 will NOT be honored and all registration fees will be forfeited. After 26 May, 2017 faxed registrations will not be accepted in office. You MUST register on-site. TELEPHONE REGISTRATIONS WILL NOT BE ACCEPTED! ANY REGISTRATION WITHOUT PAYMENT WILL BE DISCARDED! If payment is received from a non-US bank, attendees will be charged a collection fee of \$45.00.

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STATEMENT OF CERTIFICATION – AUDIT CONDUCTED BY AUDIENCE INSIGHTS

We have carefully examined the attendee records of the 2017 IEEE MTT-S International Microwave Symposium held in San Francisco, CA. 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 (EELAC), 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