

Summary of TFA Nomination Data
(by presentation year)

	<u>2015</u>		<u>2014</u>		<u>2013</u>		<u>2012</u>		<u>2011</u>	
	% of Total		% of Total		% of Total		% of Total		% of Total	
Total Number of Nominations	<u>233</u>		<u>186</u>		<u>177</u>		<u>212</u>		<u>207</u>	
Number of New Nominations	121	52%	106	57%	84	47%	93	44%	101	49%
Number of Reconsider/Resubmitted Nominations	112	48%	80	43%	93	53%	119	56%	106	51%

Representation of Candidates

Total number of candidates	<u>257</u>		<u>202</u>		<u>192</u>		<u>221</u>		<u>209</u>	
Region 1-6 Total Candidates	162	63%	124	61%	109	57%	143	65%	138	66%
Region 7 Total Candidates	7	3%	8	4%	6	3%	4	2%	7	3%
Region 8 Total Candidates	47	18%	40	20%	36	19%	41	19%	36	17%
Region 9 Total Candidates	0	0%	0	0%	1	1%	2	1%	1	0%
Region 10 Total Candidates	41	16%	30	15%	40	21%	31	14%	27	13%
Number of female candidates	16	6%	8	4%	8	4%	10	5%	10	5%

Name	Scope	Past Nominations (<u>N</u> ew/ <u>C</u> arryover)																								5 year total New	Notes											
		2015						2014						2013						2012								2011										
Broad Technical and/or Managerial Influence		N	C	R1-6	R7	R8	R9	R10	N	C	R1-6	R7	R8	R9	R10	N	C	R1-6	R7	R8	R9	R10	N	C	R1-6	R7	R8	R9	R10	N	C	R1-6	R7	R8	R9	R10		
Steinmetz	<i>Standards</i>	3	2	3		2			0	2	1		1			2	3	3	1	1			2	3	3	1	1			3	2	4		1			10	
	<i>Women</i>	1				1																								1		1						
Frederik Phillips	<i>R&D management</i>	1	2	1		1		1	1	3	3				1	2	4	4				2	5	3	4				4	2	5	3				4	11	
	<i>Women</i>																																					
TOTAL		4	4	4	0	3	0	1	1	5	4	0	1	0	1	4	7	7	1	1	0	2	7	6	7	1	1	0	4	5	7	7	0	1	0	4		
FEMALE NOMINEES		1	0						0	0						0	0						0	0						1	0							

Summary:

Regional totals may not equal the yearly total in cases where multiple candidates were included in one nomination.

Name	Scope	Past Nominations (<u>N</u> ew/ <u>C</u> arryover)																								5 year total New	Notes											
		2015						2014						2013						2012								2011										
Communications, Control and Information Science		N	C	R1-6	R7	R8	R9	R10	N	C	R1-6	R7	R8	R9	R10	N	C	R1-6	R7	R8	R9	R10	N	C	R1-6	R7	R8	R9	R10	N	C	R1-6	R7	R8	R9	R10		
Control Systems	<i>Control Systems eng. Science, technology</i> Women	2	6	6	1	1			1	5	4	1	1			3	5	5	1	2			2	8	5		4		1	3	7	6	1	2		1	11	
Fourier	<i>Signal processing</i> Women	3	0	3																																	*	First presentation in 2015
Flanagan	<i>Speech and/or audio signal processing</i> Women	5	4	6		3		2	3	3	4	1	1		1	1	7	6		3			1	8	8		3			3	8	10		3			13	
Kobayashi	<i>Integration of computers and communications</i> Women	7	5	11		1		2	4	3	5				2	2	4	4		2			5	6	8		3			2	7	6		3		1	20	
Rosenblatt	<i>Biologically and linguistically motivated computer paradigms</i> Women	7	4	8		4			2	3	2	1	3			3	3	2		5			4	0	2		2			0	1			1			16	
Sumner	<i>Communications technology</i> Women	6	1	5		1		3	6	1	3		4			4	4	6		2		2	4	3	6				2	2	5	6				1	22	
TOTAL		30	20	36	1	10	0	7	16	15	18	3	9	0	3	13	23	23	1	14	0	2	16	25	29	0	12	0	3	10	28	28	1	9	0	3		
FEMALE NOMINEES		1	1						1	0							2						1	2						3	1							

Summary:
Regional totals may not equal the yearly total in cases where multiple candidates were included in one nomination.

Name	Scope	Past Nominations (<u>New</u> / <u>Carryover</u>)																								5 year total New	Notes											
		2015						2014						2013						2012								2011										
Circuits and Signal Processing		N	C	R1-6	R7	R8	R9	R10	N	C	R1-6	R7	R8	R9	R10	N	C	R1-6	R7	R8	R9	R10	N	C	R1-6	R7	R8	R9	R10	N	C	R1-6	R7	R8	R9	R10		
Internet	<i>Internet Tech and architecture for mobility, etc.</i>	4	3	5	1	1			3	2	4		1			4	1	4				1	0	4	2		2			2	3	2		2		1	13	
	Women		1	1					1		1																											
RB Johnson	<i>Information storage</i>	1	4	4		3			5	0	5		3			0	1	1					1	4	5				1	**	**						*	
	Women		1	1					1		1																											
Robotics & Automation	<i>Robotics and Automation</i>	3	7	8		2			2	6	4		3		1	3	6	6		2		1	5	4	6		2		1	4	3	4		1		1	17	
	Women	1		1												1		1					1		1													
TOTAL		8	14	17	1	6	0	0	10	8	13	0	7	0	1	7	8	11	0	2	0	2	11	14	18	0	7	0	2	10	9	12	1	4	0	2		
FEMALE NOMINEES		1	2						2	0						0	1						2	1						1	0							

Summary:
 Regional totals may not equal the yearly total in cases where multiple candidates were included in one nomination.

Name	Scope	Past Nominations (<u>New/Carryover</u>)																				5 year total new	Notes															
		2015					2014					2013					2012							2011														
		N	C	R1-6	R7	R8	R9	R10	N	C	R1-6	R7	R8	R9	R10	N	C	R1-6	R7	R8	R9	R10	N	C	R1-6	R7	R8	R9	R10	N	C	R1-6	R7	R8	R9	R10		
New and Emerging Technologies and Society																																						
Biomedical Engineering	Biomedical engineering <i>Women</i>	3	1	3		1			4	0	2		1		3	2	0	2																*	First presentation in 2013. Weak performance in 2013.			
ISI	establishment, development, and proliferation of innovative societal infrastructure systems through the application of information technology with an emphasis on distributed computing systems <i>Women</i>	4	1	6				3	2	0	4																						*	First presentation in 2014.				
Daniel Noble	Emerging Technologies <i>Women</i>	2	2	4					2	1	3					1	4	4		1														12				
Tomiyasu	Early-to-middle-years achievements <i>Women</i>	3	5	4	1	3		1	5	3	6		2		1	4	3	3		1		3											22					
Trans Tech	Transportation Technologies <i>Women</i>	4	2	5				1	6	0	5																						*	First presentation in 2014.				
TOTAL		16	11	22	1	4	0	5	19	4	20	0	3	0	4	7	7	9	0	1	1	3	10	7	10	1	3	1	4	7	8	10	2	2	0	3		
FEMALE NOMINEES		2	2						2	0						0	0						0	2					0	1								

Summary:
Regional totals may not equal the yearly total in cases where multiple candidates were included in one nomination.

Name	Scope	Past Nominations (<u>N</u> ew/ <u>C</u> arryover)																		5 year total new	Notes																	
		2015						2014						2013								2012						2011										
		N	C	R1-6	R7	R8	R9	R10	N	C	R1-6	R7	R8	R9	R10	N	C	R1-6	R7	R8	R9	R10	N	C	R1-6	R7	R8	R9	R10	N	C	R1-6	R7	R8	R9	R10		
Microelectronics, Photonics and Nanotechnology																																						
Cledo Brunetti	<i>Nanotechnology and miniaturization in the electronic arts</i> Women	5	5	10				7	4	3	7		1		2	3	1	1		2		1	3	3	6				1	5	1	7				1	20	
CPMT	<i>Components, electronic packaging, manufacturing</i> Women	3	2	4				1	2	2	3				1	0	5	2				3	1	8	6		1		1	4	6	6		1		3	10	
Andrew Grove	<i>Solid State devices and technology</i> Women	7	4	5		4		2	4	2	3		1		2	3	0			1		2	3	2	3		1		1	4	1	5		1			21	
Kirchoff	<i>Electronic circuits and systems</i> Women	2	6	5		2		1	3	6	5		2		2	6	1	4		2		1	3	2	4				1	2	2	3		1			16	
Pederson	<i>Solid state circuits</i> Women	5	1	3	1	2		1	1	2	2	1				1	3	3				3	1	4	4				3	3	4	5		2			11	
Photonics	<i>Photonics</i> Women	4	5	6		2		2	6	2	4		3		2	1	5	5				2	2	4	5				2	4	4	6		1		2	17	
Sarnoff	<i>Electronics</i> Women	4	9	10				4	6	5	9				3	6	3	5	1			3	1	4	3				2	5	3	7				2	22	
	TOTAL	30	32	43	1	10	0	18	26	22	33	1	7	0	12	20	18	20	1	5	0	15	14	27	31	0	2	0	11	27	21	39	1	5	0	8		
	FEMALE NOMINEES	1	3						1	2						1	2						1	0						1	1							

Summary:
Regional totals may not equal the yearly total in cases where multiple candidates were included in one nomination.

Name	Scope	Past Nominations (<u>N</u> ew/ <u>C</u> arryover)																				5 year total new	Notes																
		2015					2014					2013					2012							2011															
		N	C	R1-6	R7	R8	R9	R10	N	C	R1-6	R7	R8	R9	R10	N	C	R1-6	R7	R8	R9	R10	N	C	R1-6	R7	R8	R9	R10	N	C	R1-6	R7	R8	R9	R10			
Power and Energy Systems																																							
Marie Sklodowska-Curie	Nuclear and Plasma sciences and engineering <i>Women</i>	3	2	5					3	3	5		2		1	2	3	5		1		1	1	7	6		1		1	9	0	7		1		1	18		
Herman Halperin	Electric transmission and distribution <i>Women</i>	5	3	4	2	2			3	2	2	2	1			4	2	5		1			3	2	2	2	1			1	2	2		1			16		
Newell	Power Electronics <i>Women</i>	0	7	2		1		4	3	6	2		3		4	4	3	2		2		3	2	2	1		1		2	7	3	4		1	2	1	2	16	
Tesla	Generation and utilization of electric power <i>Women</i>	6	3	3		5		2	3	2	1		3		1	3	3	1	2	2		1	3	2	2		2		1	3	3	4		1		1	18		
TOTAL		14	15	14	2	8	0	6	12	13	10	2	9	0	6	13	11	13	2	6	0	5	9	13	11	2	5	0	4	20	8	17	2	4	1	4			
FEMALE NOMINEES		0	0						0	0						0	0						0	0						0	0								

Summary:
Regional totals may not equal the yearly total in cases where multiple candidates were included in one nomination.

Name	Scope	Past Nominations (<u>New</u> / <u>Carryover</u>)																								5 year total new	Notes											
		2015						2014						2013						2012								2011										
Industrial Technologies and Systems Engineering		N	C	R1-6	R7	R8	R9	R10	N	C	R1-6	R7	R8	R9	R10	N	C	R1-6	R7	R8	R9	R10	N	C	R1-6	R7	R8	R9	R10	N	C	R1-6	R7	R8	R9	R10		
Electro-magnetics	<i>Electromagnetics theory, application, or education</i> Women	5	4	5		3		1	6	5	9		2			5	4	5		3		1	4	5	6		2		1	3	4	5		2			23	
Masaru Ibuka	<i>Consumer Electronics</i> Women	3	0	5					0	0						2	2	1		3		4	2	2	2		6			2	1	2		5			9	
Kaufmann	<i>Industrial systems engineering</i> Women	1	3	2	1			1	4	2	3	1	1		1	4	2	3		1		2	2	4	5				1	4	3	5				2	15	
Keithley	<i>Instrumentation and measurements</i> Women	5	2	3		2		2	2	2	3				1	3	1	5				1	1	3	4		2			0	4	2		2			11	
TOTAL		14	9	15	1	5	0	4	12	9	15	1	3	0	2	14	9	14	0	7	0	8	10	16	20	0	10	0	2	9	14	16	0	9	0	2		
FEMALE NOMINEES		0	0						0	0						0	0						0	0						0	1							

Summary:
Regional totals may not equal the yearly total in cases where multiple candidates were included in one nomination.

Name	Scope	Past Nominations (<u>N</u> ew/ <u>C</u> arryover)																				5 year total new	Notes															
		2015						2014						2013						2012						2011												
<u>Education, Best Papers, Scholarships and Service Awards</u>		N	C	R1-6	R7	R8	R9	R10	N	C	R1-6	R7	R8	R9	R10	N	C	R1-6	R7	R8	R9	R10	N	C	R1-6	R7	R8	R9	R10	N	C	R1-6	R7	R8	R9	R10		
Kirchmayer	Graduate Teaching	3	4	7					7	2	8	1				2	5	6				1	6	7	10		1	1	1	5	5	8		1		1	23	
	Women	1		1																																		
Under-graduate	Undergraduate teaching	2	3	4		1			3	2	3		1		1	4	5	6	1			2	5	2	7					3	1	3		1			17	
	Women	1		1												2		1	1				1		1													
TOTAL		5	7	11	0	1	0	0	10	4	11	1	1	0	1	6	10	12	1	0	0	3	11	9	17	0	1	1	1	8	6	11	0	2	0	1		
FEMALE NOMINEES		1	1						0	0						2	0						1	0						0	0							

Summary:
 Regional totals may not equal the yearly total in cases where multiple candidates were included in one nomination.