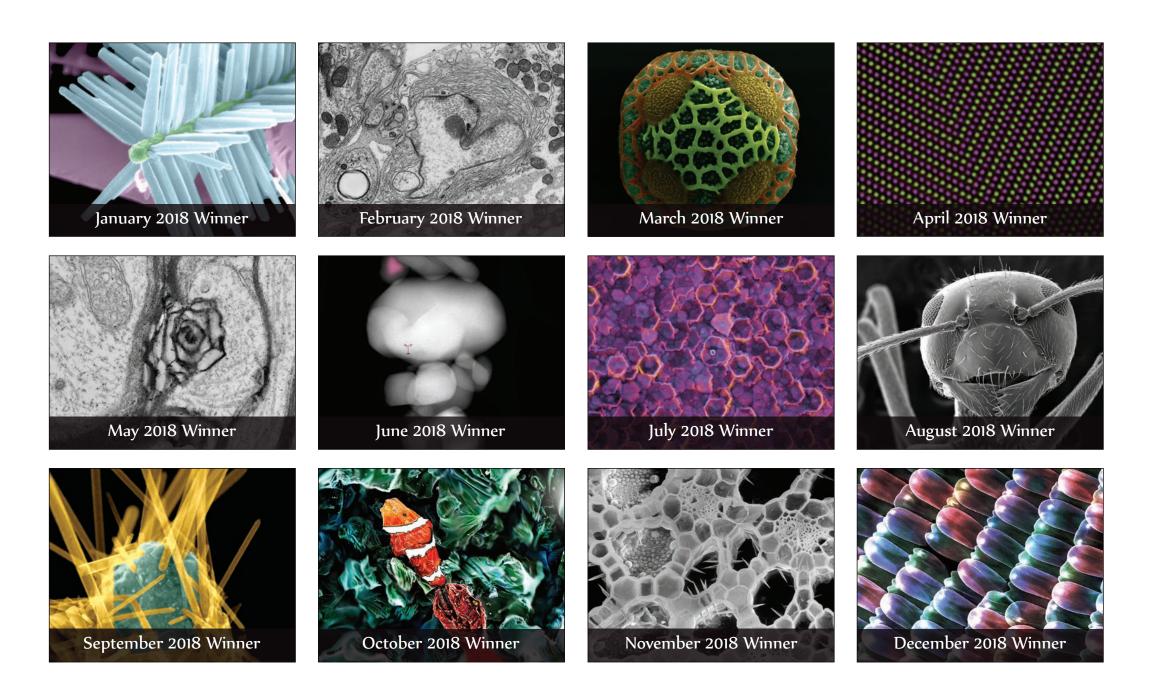
# 2019 CALENDAR



## Featuring 2018 Winning Images





## 2019 CALENDAR Featuring 2018 Winning Images

JEOL USA would like to thank all of our customers who submitted images to our Image Contest over the past five years – from 2014 to 2018. We have received many outstanding images that are posted in galleries on our website at www.jeolusa.com/winners.

We invite all JEOL SEM, TEM, and EPMA users to enter the JEOL USA 2019 Image Contest. A prize is awarded to the owner of the winning image for each month, and the contest culminates in two Grand Prize winners announced at the end of the year. See our website for contest guidelines.

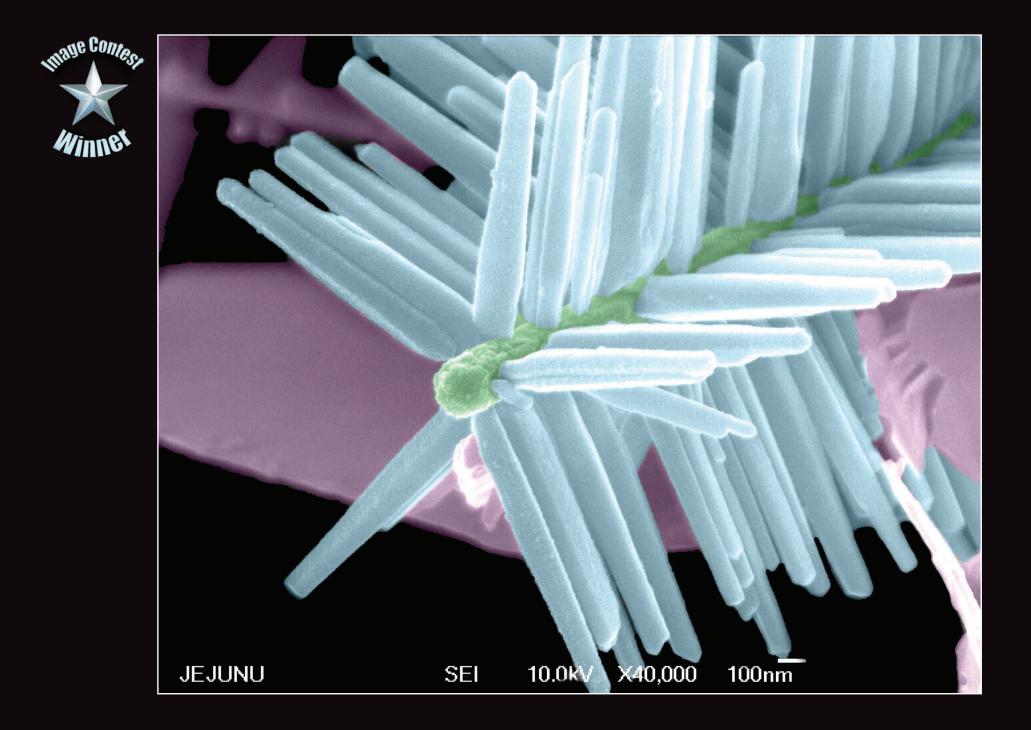


Pollen Granule Dr. Orlando Hernández, Universidad Nacional Autónoma de México, ENES - Unidad Morelia - JSM-IT300 SEM Preparation: Dr. Francisco Balvino Olvera -Image processing: Biol. Daniel Ramírez Martínez



Axon Rose Representation from genotype VPS11 from drosophila brain tissue. Mutant axon gone awry amongst other brain cells. Lita Duraine - Howard Hughes Medical Institute - JEOL 1400Plus TEM

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Ag/ZnO Hierarchical Nanostructure Instrument: JEOL JSM-6700F Scanning Electron Microscope *Credit: Ulugbek Shaislamov - Jeju National University* 

#### JEOL

#### January 2019

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		New Year's Day	I-APS Inter-Amer Photochem Sarasota, FL	3	4	5
6	Winter School on HR EM 7 Arizona State University 7	8	9	10	11	12
13	14	15	16	17	18	19
20	Martin Luther <b>21</b> King, Jr. Day	22	23	24	25	26
27	28	29	30	31		



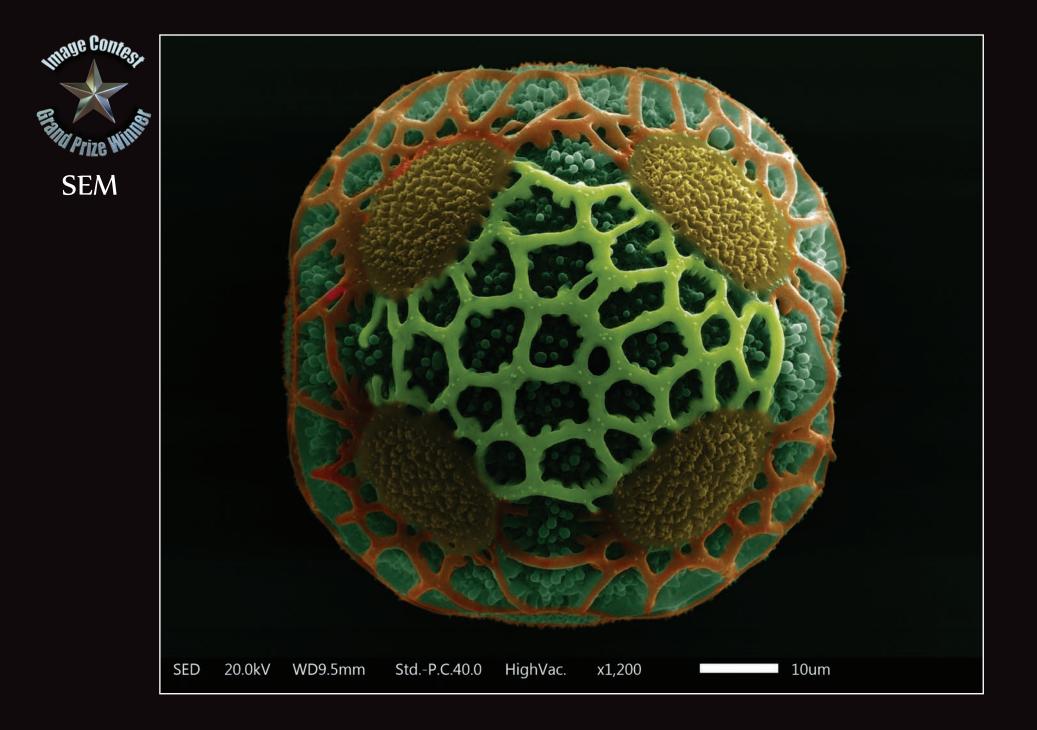
Love Me, Love My Bouton

Mutant bouton synapse - representation of a genetic deficiency construct made for drosophila neuromuscular junction tissue Lita Duraine, Howard Hughes Medical Institute - JEOL 1400Plus TEM at 80kV

Febr	uary	2	.019	
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JEOL

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	Constitution Day 4 Observed (Mexico)	Chinese New Year 5	6	7	8	9
10	11	12	13	Valentine's Day <b>14</b>	15	16
17	President's Day 18 Family Day (Canada)	19	20	21	22	23
24	25	Advanced Lithography 26 San Jose, CA	27	28		

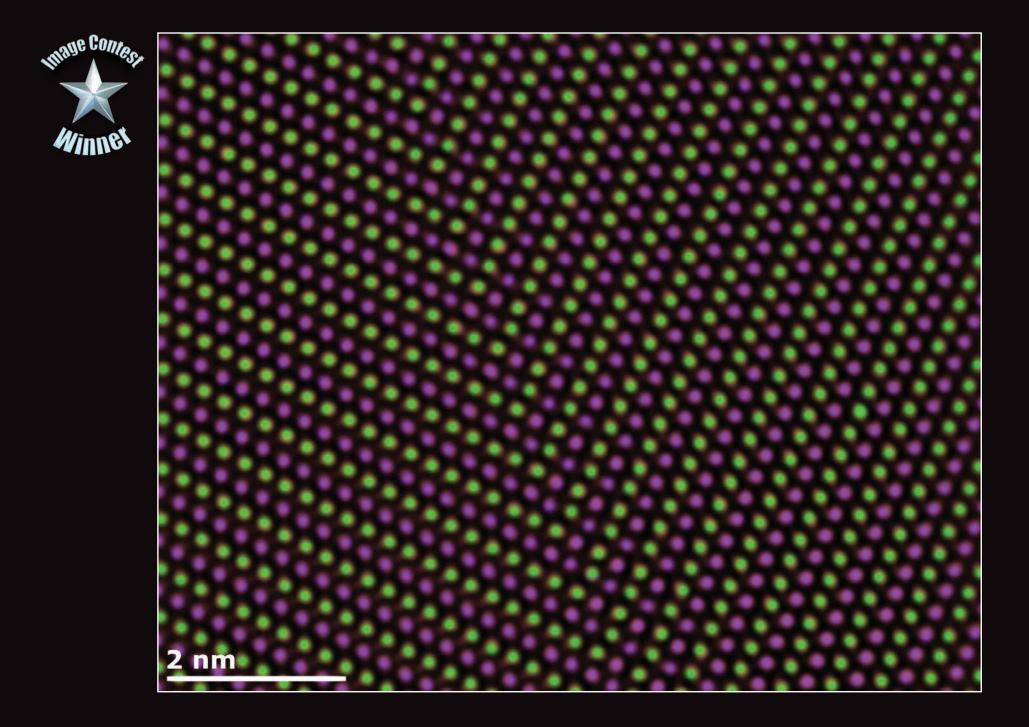


Dr. Orlando Hernández, Universidad Nacional Autónoma de México, ENES - Unidad Morelia - JSM-IT300 SEM Preparation: Dr. Francisco Balvino Olvera - Image processing: Biol. Daniel Ramírez Martínez

#### Pollen Granule

March	201	9
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JEOL March 2019							
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
					1	Biophysical Society Baltimore, MD 2	
PANIC NMR Hilton Head, NC	3 4	5	Ash Wednesday 6	7	8	9	
Daylight Savings 10 Begins	) 11	12	13	14	15	16	
St. Patrick's Day	7 18	PTTTCON Philadelphia, PA 19	Spring Begins 20	21	22	23	
24 31 ACS Spring Orlando, FL	L 25	GOMAC TECH Albuquerque, NM 26	27	28	29	30	



Twins in Magnesium Atomic arrangement across a twin boundary in magnesium - JEM-F200 Transmission Electron Microscope Lawrence Whitmore, University of Salzburg

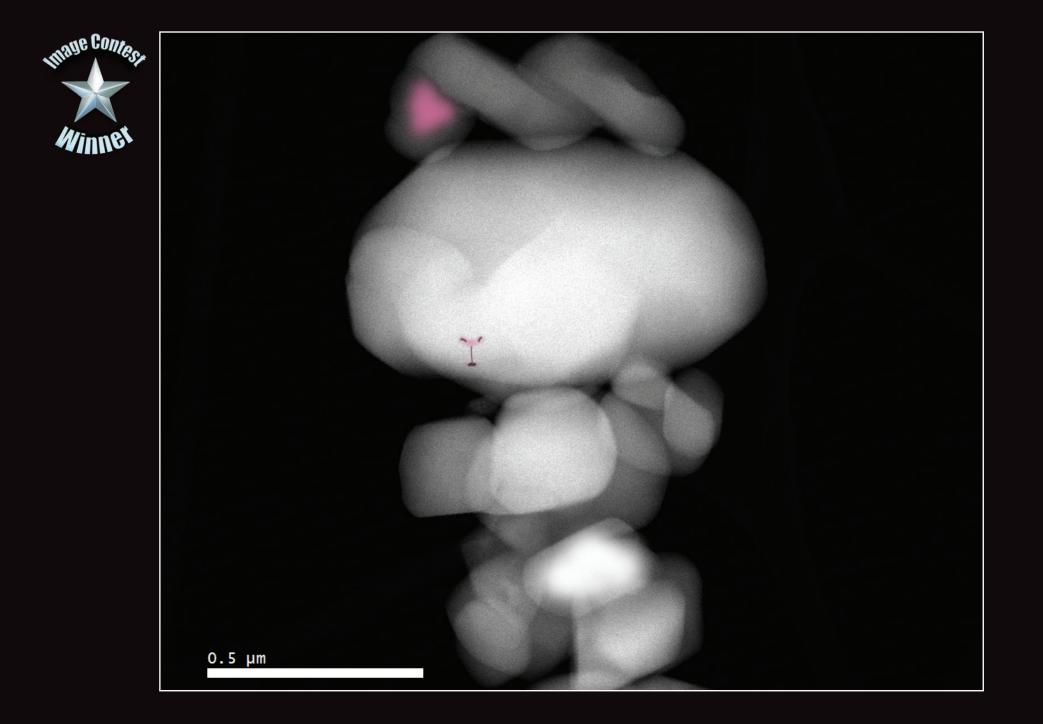
## April 2019

JE0L	JEOLS April 2019							
Sunda	у	Monda	y	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4	5	6
ENC Pacific Grove, CA	7		8	9	10	11	12	13
Palm Sunday	14		15	16	17	18	Good Friday 19 Passover Begins at Sundown	20
Easter	21	Easter Monday (Canada) Earth Day	22	23	24	25	NESM Woods Hole, MA 26	27
Orthodox Easter	28	Ceramics Expo Cleveland, OH CS Mantech Minneapolis, MN	29	30				



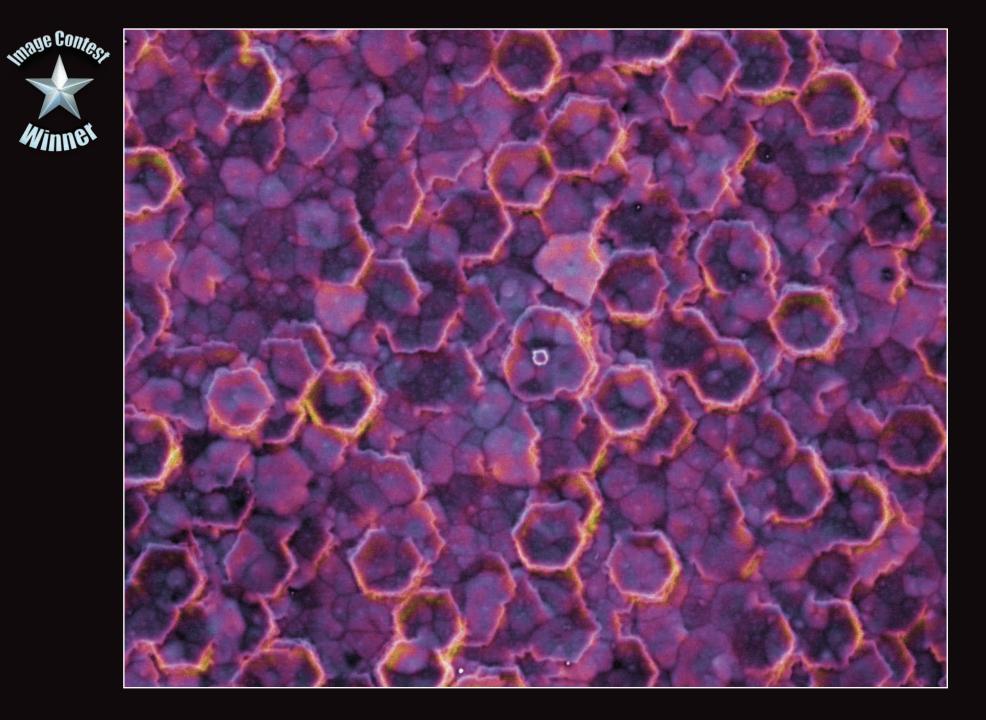
Axon Rose Representation from genotype VPS11 from drosophila brain tissue. Mutant axon gone awry amongst other brain cells. *Lita Duraine - Howard Hughes Medical Institute - JEOL 1400Plus TEM* 

JEOL	Q			M	lay 20	)1	9		
Sunday		Monday		Tuesday	Wednesda		Thursday	Friday	Saturday
					May Day Labor Day (Mexico)	1	2	3	4
Cinco de Mayo Battle of Puebla Day (Mexico) Ramadan Begins at Sundown	5		6	7	MAAFS Morgantown, WV	8	9	10	11
Mother's Day	12	GC x GC Ft. Worth, TX	13	14	SEMS Chattanooga, TN	15	16	17	18
	19	Victoria Day (Canada)	20	21		22	23	24	25
	26	Memorial Day	27	EIPBN Minneapolis, MN 28	2	29	30	31	



A Walking Rabbit Lithium metal oxide nanoparticles used as battery cathode placed on a lacey carbon grid. *Cong Su, MIT (Bell Lab - Harvard University ARM200F STEM)* 

JEOL		Ju	ne 201	9		
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
ASMS Atlanta, GA Lehigh Microscopy School Bethlehem, PA	3	4	5	6	7	8
9	10	11	12	13	Flag Day <b>14</b>	15
Father's Day 16 NORM Portland, OR	17	18	19	20	Summer Begins 21	22
23 30	St. Jean Baptiste Day (Que.) 24 Quantitative Microanalysis Minneapolis, MN	25	26	27	28	29



Ultraviolet Lace

Surface morphology of a group III-nitride wide bandgap AlGaN semiconductor material. Overlay of backscattered electron image (showing topography) and cathodoluminescence image (revealing the light emission properties).

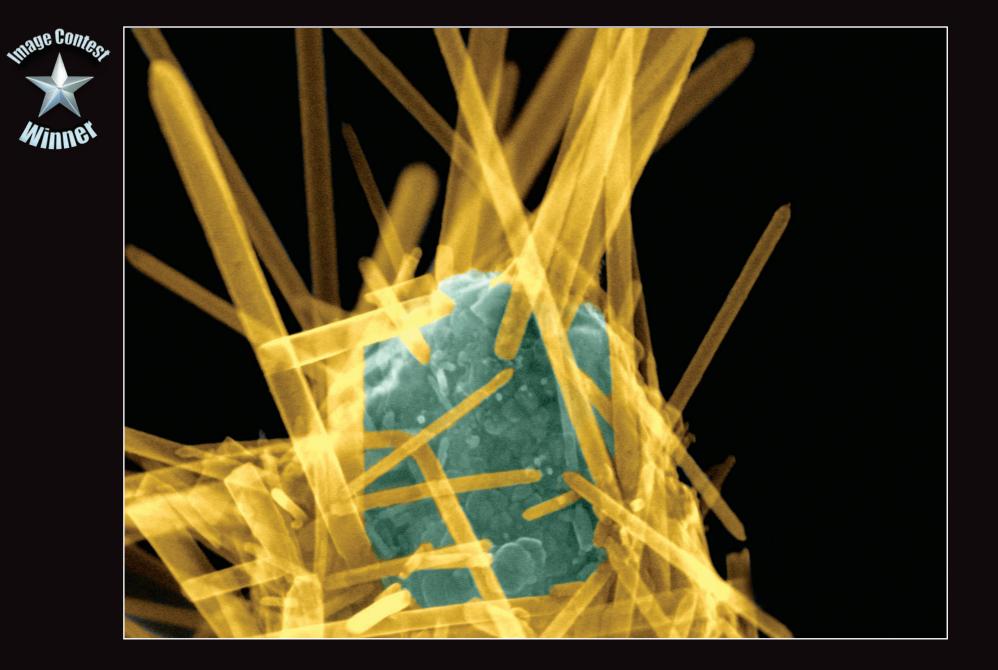
Lucia Spasevski, University of Strathclyde - JXA-8530F EPMA

JEOL		Ju	ly 2019	9		
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	Canada Day (Canada)	2	3	Independence Day 4	5	6
7	8	SEMICON West San Francisco, CA	10	11	12	ASP Madison, WI 13
14	15	16	17	18	19	Phytochemical Society of North America Johnson City, TN
21	22	23	24	25	26	27
28	29	30	31			



August	2019
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JEOL	JEOL August 2019							
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday		
				1	2	3		
4	Civic Holiday (Canada) 5 Microscopy & Microanalysis Portland, OR	6	7	8	9	10		
11	12	13	14	15	16	17		
18	19	20	21	22	23	24		
ACS Fall 25	26	27	28	29	30	31		



Nano Fireball ZnO nanorods grown on the CuO nanosphere - JSM-2100F TEM Ulugbek Shaislamov, Jeju National University

#### September 2019

JEOL		Septe	ember	2019		
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	Labor Day 2	3	Cannabis (CSC) West Portland, OR	5	6	7
8	9	10	11	CFN Annual Meeting Cornell - Ithaca, NY 12	13	14
15	Independence Day 16 (Mexico)	17	18	19	20	21
22	Autumn Begins 23	24	25	26	27	28
Rosh Hoshanah Begins at Sundown <b>29</b>	30					

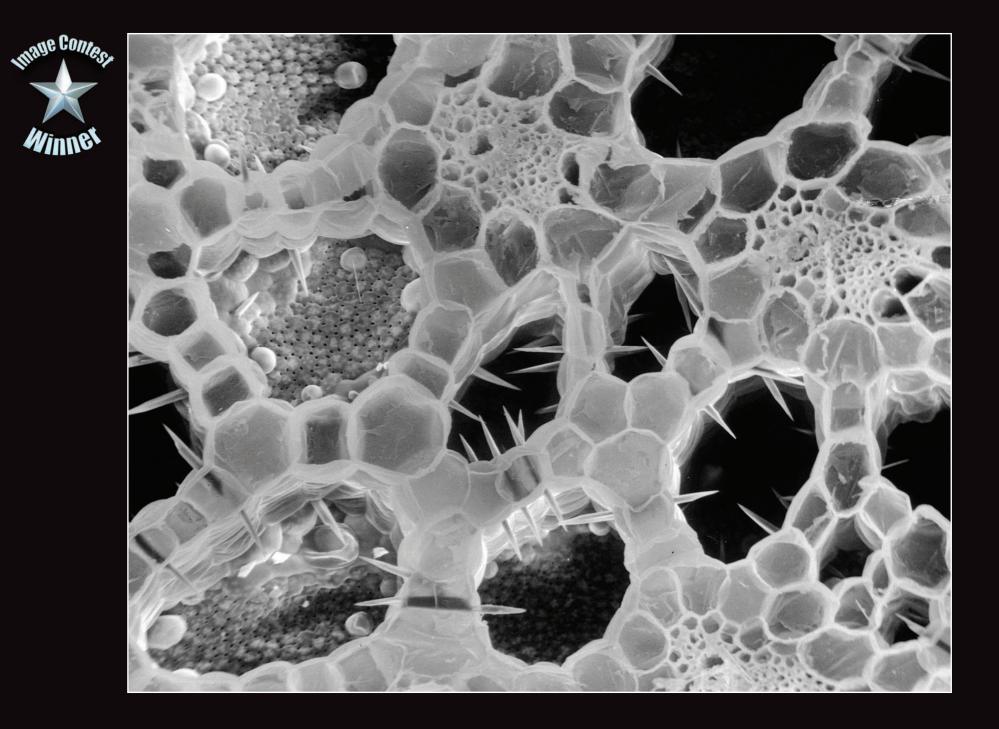


Wildlife of MXenes 2D transition metal carbides and nitrides (MXenes). Ti2N MXene particles resemble a nanoscale underwater world. *Armin VahidMohammadi - Auburn University - JSM-7000F SEM* 

#### JEOL

#### October 2019

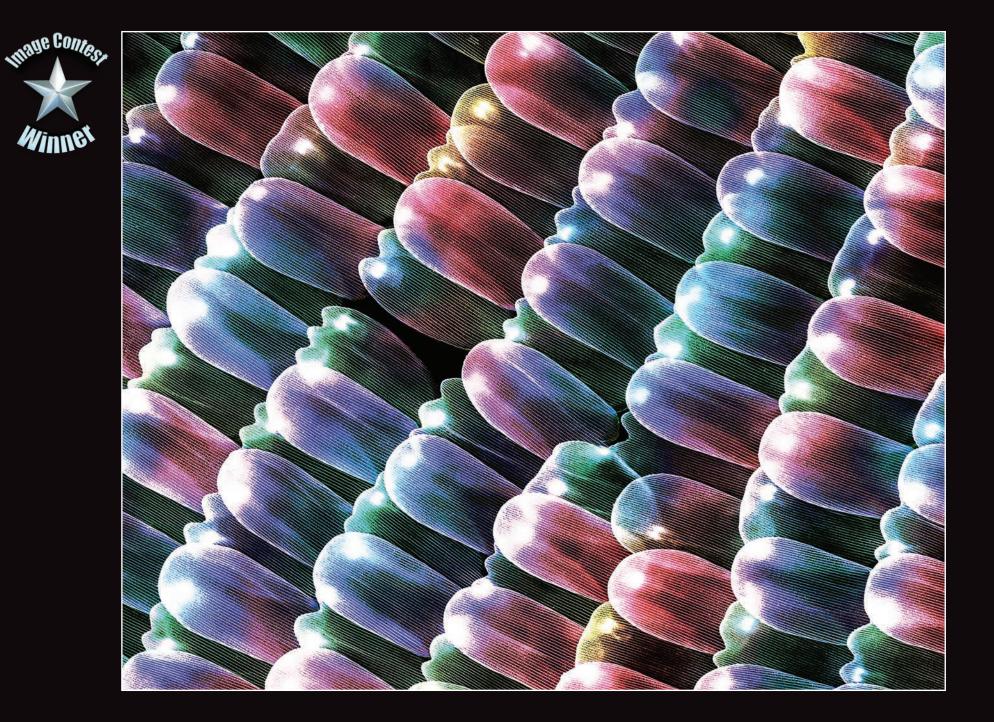
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		Materials Sci & Tech MS&T Portland, OR	2	3	4	5
6	7	Yom Kippur <b>8</b> Begins at Sundown	9	10	11	12
SOFT 3an Antonio, TX 13	Columbus Day 14 Thanksgiving (Canada)	Gulf Coast Conference 15 Galveston, TX	16	17	18	19
SERMACS Savannah, GA	21	22	23	24	25	26
27	28	29	30	Halloween <b>31</b>		



Inside a Crystalline Labyrinth Looking inside the petiole of water hyacinth (Eichornia crassipes) at the beautiful partitioned airspace canals and their surrounding cellular connective tissue with protruding calcium oxalate styloids. Harry (Jack) Horner, Iowa State University - JSM-5800 SEM at 15 kV

### JEOL November 2019

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
Daylight Savings 3	AAPS San Antonio, TX 4	5	6	7	8	9
10	Veteran's Day ]] Remembrance Day	ISTFA Portland, OR 12	SWRM/RMRM El Paso, TX 13	NEAFS Lancaster, PA 14	15	16
	(Canada)					
17	EAS Plainsboro, NJ 18	19	20	21	22	23
24	25	26	27	Thanksgiving 28	29	30



Monarch Butterfly's Wing Segment Panoramic stitching is used with a 4\*3 source image array. Each elliptical "bud" approx. 80 micrometers long. Yiheng Chen, The Haverford School (Pre-K – 12 preparatory boy's school) - NeoScope Benchtop SEM

#### JEOL December 2019

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Sunday		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	MRS Fall Boston, MA	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	Winter Begins 21
Hanukkah Begins at Sundown	22	23	24	Christmas 25	Boxing Day (Canada) 26 Kwanzaa Begins	27	28
	29	30	New Year's Eve <b>31</b>				



Visit www.jeolusa.com/winners to see all the images submitted for the JEOL Image Contest or to submit your own. See our most current schedule of events on our website.