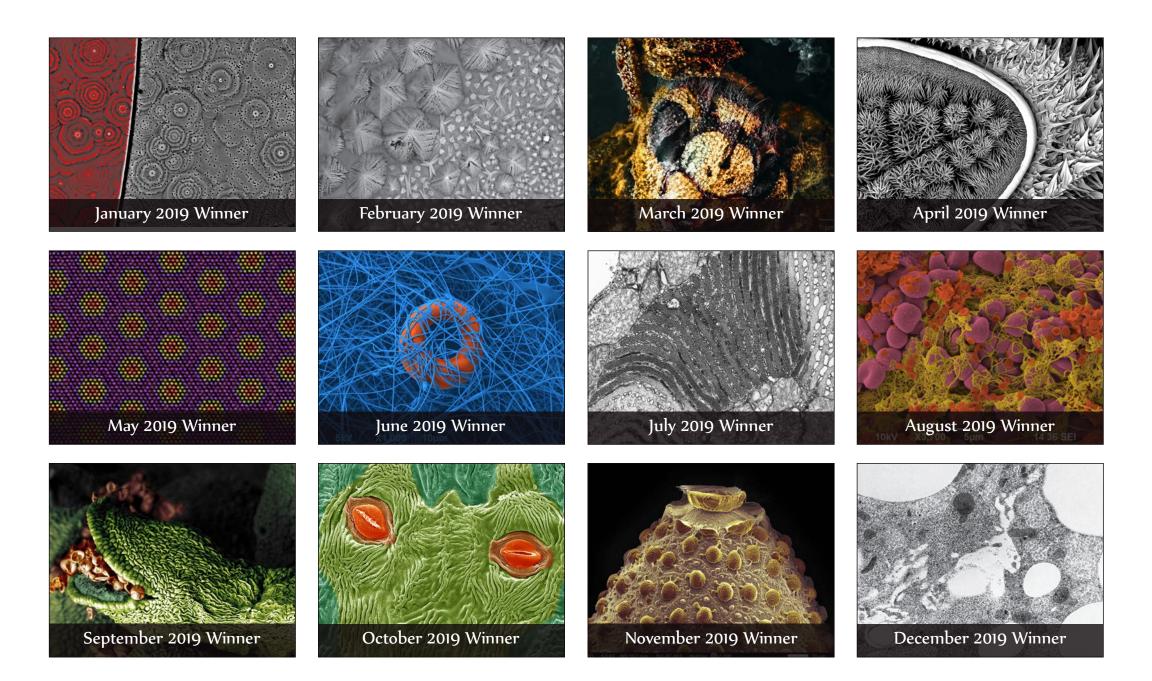
2020 CALENDAR



Featuring 2019 Winning Images





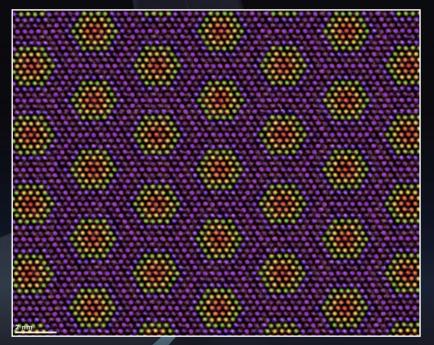
2020 CALENDAR Featuring 2019 Winning Images

JEOL USA would like to thank all of our customers who submitted images to our Image Contest over the past six years – from 2014 to 2019. 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 2020 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.

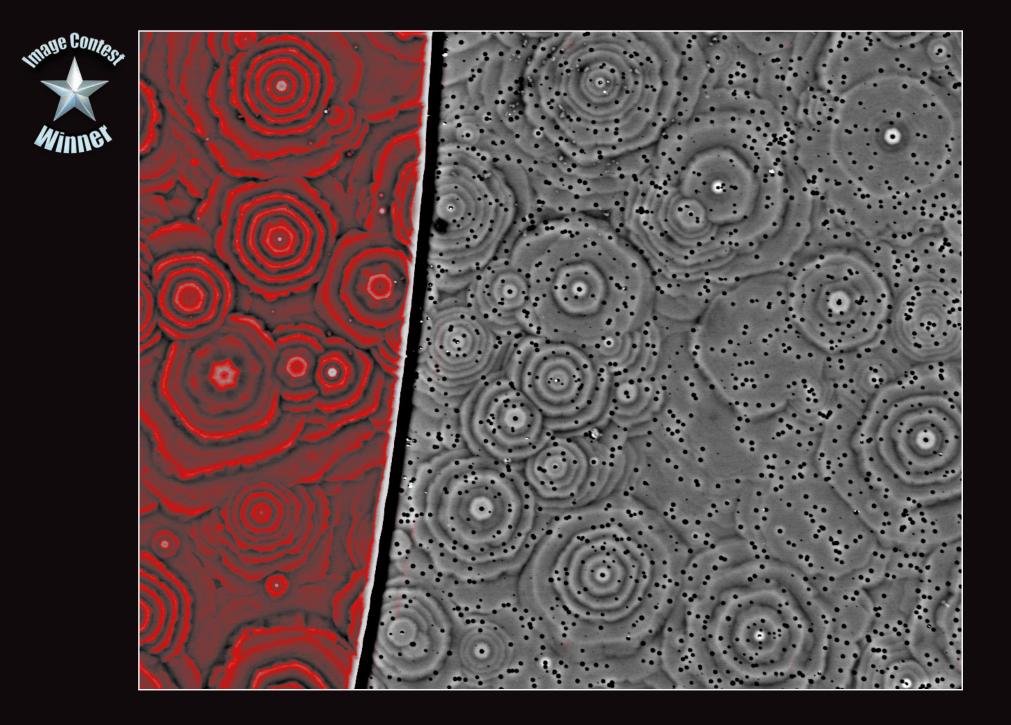


MXene Bee * Grand Prize SEM Image A fully oxidized two-dimensional (2D) vanadium carbide MXene particle, false colors, resembles a bee. Armin VahidMohammadi, Auburn University - JEOL JSM-7000F SEM.



Magnesium * Grand Prize TEM Image Hexagonal lattice of magnesium. Lattice aligned to [0001] zone axis and artifical colour applied to emphasise the hexagonal symmetry. Dr. Lawrence Whitmore, University of Salzburg, Chemistry and Physics of Materials, Materials Science and Mineralogy - JEOL JEM-F200 TEM

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Hillock Flowerbed BSE image showing surface morphology of n-doped GaN with many v-pits and hillock features (right) and of a p-i-n diode (left) in which hillocks remain, but the v-pits have been filled in by the p-doped GaN. *Catherine Brasser, University of Strathclyde - JEOL JXA-8530F EPMA*

<u> </u>	<u> </u>	_	

January 2020

Cur Jack	Mandari	Tuesday	Wadnesday	Thursday	Tui Jack	Saturday
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			New Year's Day	2	3	4
11th Multidimensional ChromatograpyWorkshop Honolulu, Hawaii January 5-7, 202056th Winter School on Biomolecular Solid State NMR Stowe, Vermont January 5-10, 20205	Winter School on HR EM Arizona State University January 6-10, 2020	7	8	9	10	11
12	13	14	15	16	17	18
19	Martin Luther King, Jr. Day 20	21	22	23	24	Chinese New Year 25
26	27	28	29	30	31	



Frozen Crystallites on the surface of a micrometeorite - BSE Image Anette von der Handt, University of Minnesota - JEOL JXA-8530FPLUS EPMA

February 2	2020
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JEOL

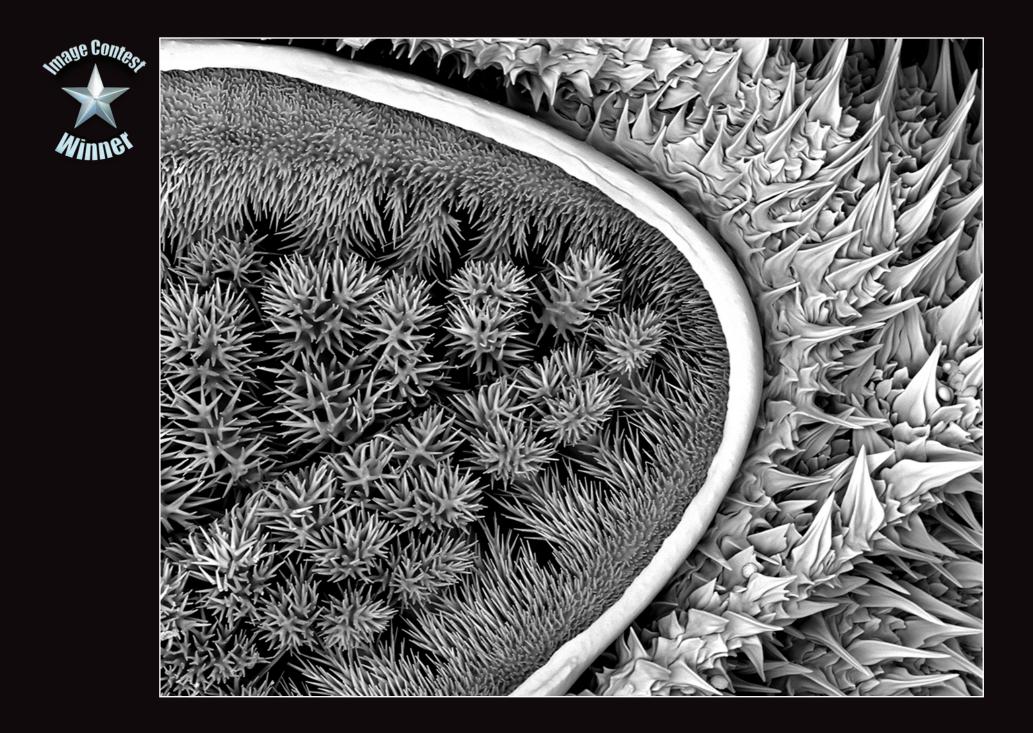
Sunday		Monday	у	Tuesday		Wednesday	y	Thursday	Friday	Saturday
										1
	2	Constitution Day (Mexico)	3	2	4		5	6	7	8
	9		10	1	11	12	2	13	Valentine's Day 14	15
	16	President's Day	17	18	0	AAFS - American Academy of Forensic Sciences Anaheim, CA February 19-21 Winter School on HR EM Arizona State University	9	20	21	22
Marine Natural Products Gordon Conference Ventura, CA February 23-28, 2020 Winter School on HR EM Arizona State University	23	Flag Day (Mexico)	24	SPIE Advanced Lithography San Jose, CA February 25-26, 2020 Winter School on HR EM Arizona State University	3	Ash Wednesday 20 Emerald Conference San Diego, CA February 26-29, 2020 Winter School on HR EM Arizona State University	6	27	28	29



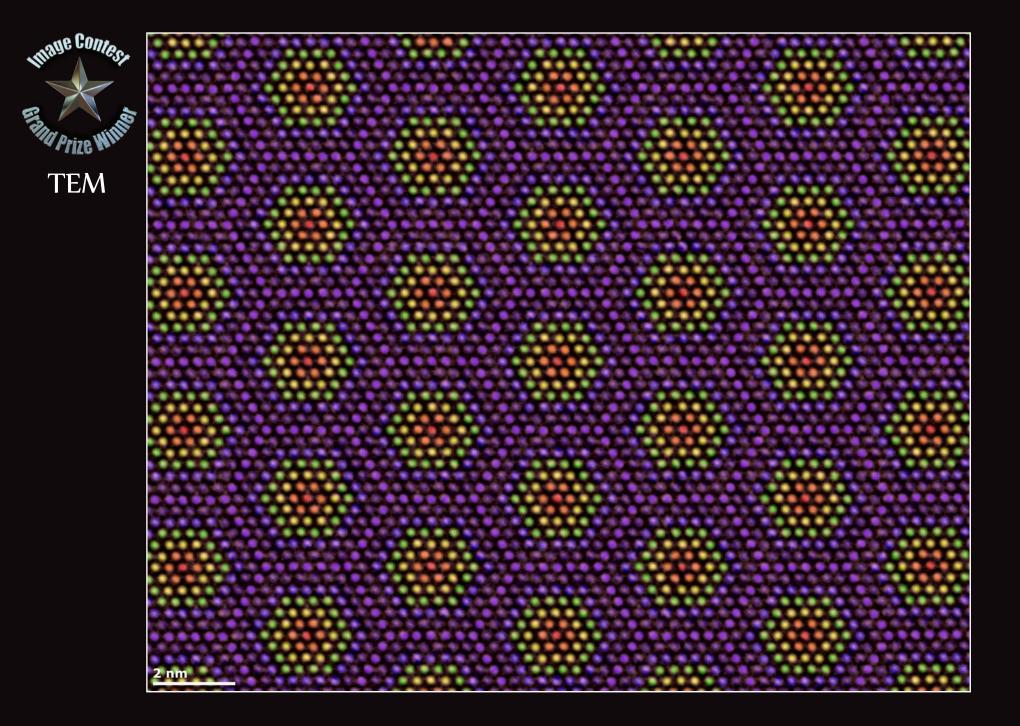
MXene Bee A fully oxidized two-dimensional (2D) vanadium carbide MXene particle, false colors, resembles a bee. Armin VahidMohammadi, Auburn University - JEOL JSM-7000F SEM. JEOL

March 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	PITTCON Chicago, IL March 3-5, 2020	4	5	6	7
Daylight Savings 8 Begins 8 ENC NMR – 61st Experimental Nuclear Magnetic Resonance Conference March 8-13, 2020 Baltimore, MD	9	10	11	12	13	14
15	16	St. Patrick's Day GOMAC TECH San Diego, CA March 17-18, 2020	18	Spring Begins 19	Arizona Imaging & Microanalysis Society March 20, 2020 Tempe, AZ	21
ACS Spring March 22-24, 2020 Philadelphia, PA	23	24	25	26	27	28
29	30	31				



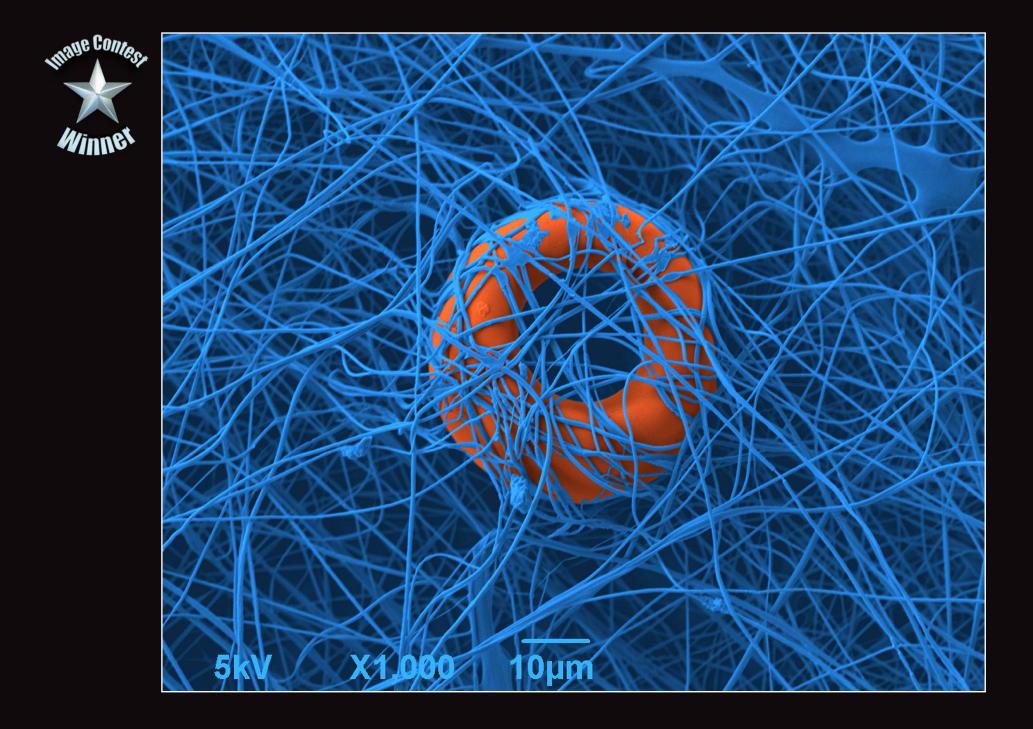
9EOL	<u> </u>		Ap	oril 202	20		
Sunday	у	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2	3	4
Palm Sunday	5	6	7	Passover Begins 8 at Sundown	9	Good Friday 10	11
Easter	12	Easter Monday (Canada) 13	Drug Discovery Chemistry San Diego, CA April 14-16, 2020	15	16	17	18
Eastern Orthodox Easter	19	20	21	Earth Day 22	23	NESM Spring Woods Hole, MA August 24-25, 2020	25
PANIC NMR LaJolla, CA April 26-30, 2020	26	AOCS Montreal, Quebec, Canada 27 April 27-29, 2020	28	29	30		



Magnesium

Hexagonal lattice of magnesium. Lattice aligned to [0001] zone axis and artifical colour applied to emphasise the hexagonal symmetry. Dr. Lawrence Whitmore, University of Salzburg, Chemistry and Physics of Materials, Materials Science and Mineralogy - JEOL JEM-F200 TEM

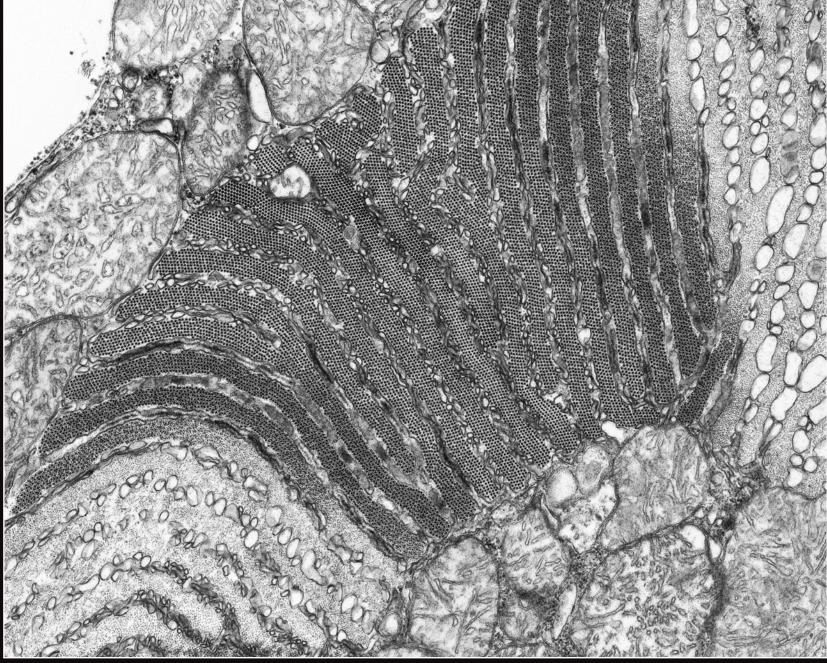
JEOL		M	ay 202	0		
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					May Day Labor Day (Mexico)	2
3	4	Cinco de Mayo Battle of Puebla Day (Mexico) Ceramics Expo Cleveland, OH May 5-6, 2020	6	7	8	9
Mother's Day 10	CS Mantech Tucson, AZ May 11-14, 2020 Delaware Valley Mass Spec Discussion Group Evanston, IL	12	MAAFS - Mid-Atlantic Assoc. of Forensic Scientists 13 Newport News, VA May 13-14, 2020 SEMS Southeastern Microscopy Society Jacksonville Beach, FL May 13-15, 2020	14	15	Armed Forces 16 Day
17	Victoria Day (Canada) 18	19	20	21	22	23
ASMS Houston, TX May 31-June 4, 2020 Lehigh Microscopy School Bethlehem, PA May 31-June 5, 2020	Memorial Day 25	EIPBN – Electron, Ion, and Photobeam Technology and Nanofabrication New Orleans, LA May 26029	27	28	29	30



June 2020

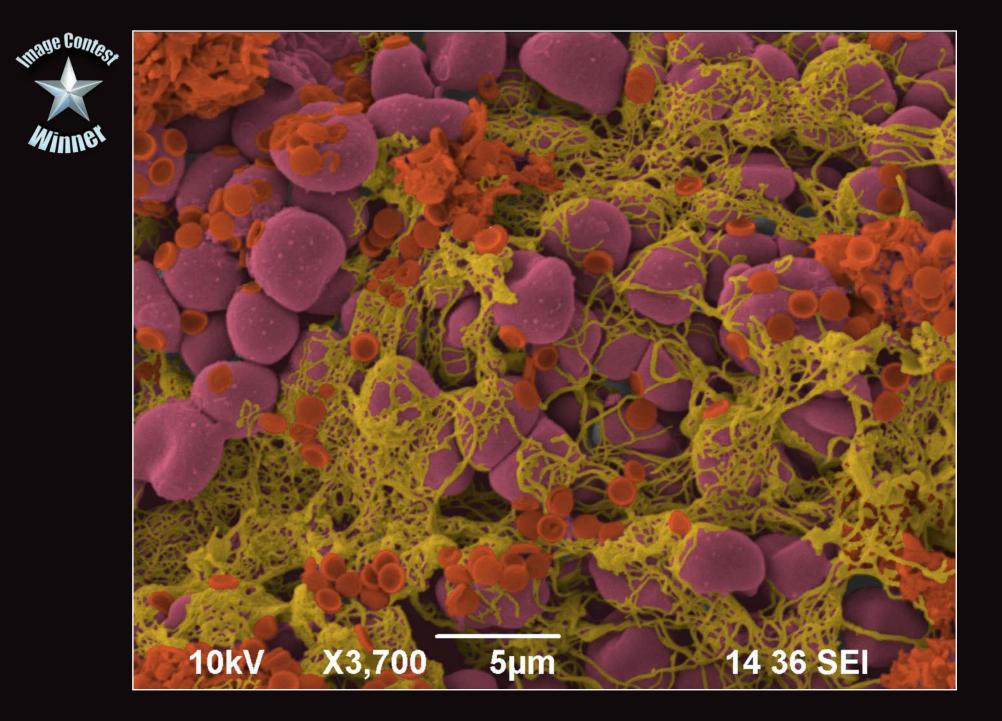
JEOL		Ju	ne 202	0		
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
ASMS – American Society of Mass Spectrometry Houston, TX May 31-June 4, 2020	1	MSC - Microscopal Society of Canada Sherbrooke, QC, Canada June 2-4, 2020	3	4	5	D-Day 6
Lehigh Microscopy School Bethlehem, PA May 31-June 5, 2020						
7	8	9	10	11	12	13
Flag Day 14	15	16	17	18	19	Summer Begins 20
Father's Day 21 (PSNA) Phytochemical Society of North America British Columbia, Canada June 21-24, 2020	22	23	St. Jean Baptiste Day (Que.) 24	25	26	27
NORM Bellingham, Washington June 28-July 1, 2020	TechConnect World National Harbor, MD June 29-July 1, 2020	30				





Wilson! Cross-section of sound-producing muscle fiber in the type 1 midshipman fish. Patrick Nahirney, Division of Medical Sciences, University of Victoria - JEOL JEM-1400 TEM

JEOL		Ju	ıly 202	0		
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			Canada Day] (Canada)	2	3	Independence Day 4
5	6	7	8	9	10	11
12	13	14	15	16	17	BCCE - Biennial Conf. on Chemeical Ed. Corvallis, OR July 18-23, 2020
19	20	SEMICON West San Francisco, CA July 21-23, 2020 RMC Magnetic Resonance Copper Mountain, CO July 21-23, 2020	22	23	24	ASP - Amer. Soc. of Pharmacognosy San Francisco, CA July 25-30, 2020
26	27	28	29	30	31	



Blood Clot Red blood cells, Fibrin and DPNs (polymeric nanoparticles) Simone Lauciello, IIT - Fondazione Istituto Italiano di Tecnologia - JEOL JSM-6490LA SEM

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August 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
IAFP - Int'l. Assoc. for Food Protection - Cleveland, OH August 2-4, 2020	Civic Holiday (Canada) 3 M&M - Microscopy & Microanalysis Milwaukee, MN August 3-6, 2020	4	5	6	7	8
Ç) 10	11	12	13	14	15
ACS Fall San Francisco, CA August 16-20, 2020	5 17	18	19	20	21	22
ICMRBS Int'l Conf of Magnetic Resonance Boston, MA August 23I-28, 2020	B Cannabis Science Conf. West Portland, OR August 31-September 1	25	26	27	20	IMSC - Int'l Mass Spec Conference Rio de Janeiro, Brazil August 29-September 4, 2020

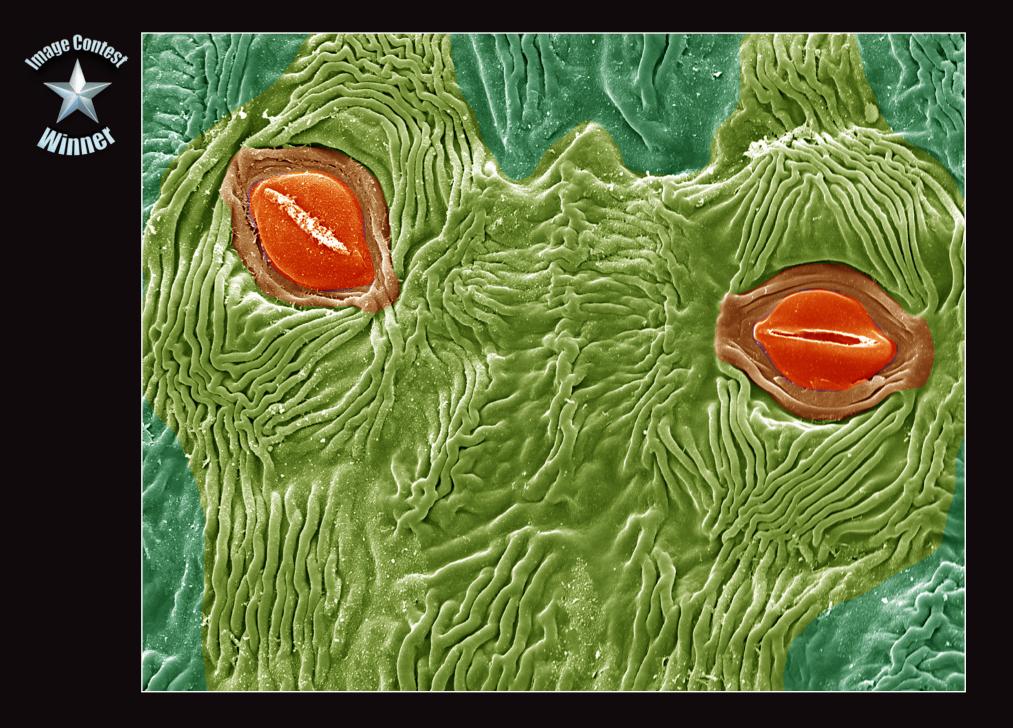


lguana Amazon! Euphorbia milii anthera details

Rachel Rachid, Jander Matos, and Diego Regalado, Center for Analysis of Biomedical Phenomena of the University of State of Amazonas, CMABio/UEA - JSM-IT500HR SEM

September 2020

JEOL		Septe	mber	2020		
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
IMSC - Int'l Mass Spec Conference Rio de Janeiro, Brazil August 29-September 4, 2020	Cannabis Science Conf. West Portland, OR August 31-September 1	1	2	3	4	5
6	Labor Day 7	8	9	10	11	12
13	SMASH NMR San Diego, CA September 14-16, 2020	IMAT - Int'l. Materials Applications & Technologies Cleveland, OH September 15-17, 2020	Independence Day 16 (Mexico)	17	Rosh Hoshanah Begins at Sundown 18	19
20	SOFT - Society of Forensic Toxicologists San Diego, CA September 21-25, 2020	Autumn Begins 22	23	24	25	26
27	28	29	30			

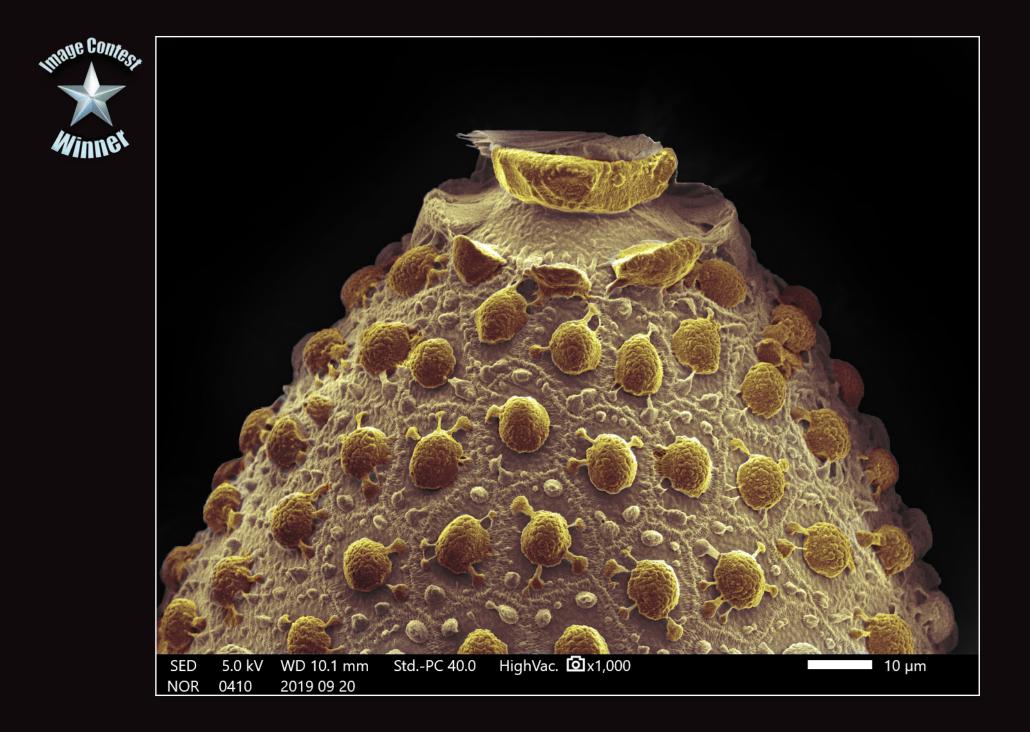


"Alien" Plant Stomata on the floral bract of corpse flower (Amorphophallus titanum) *Vijayasankar Raman, The University of Mississippi - JSM-5600 SEM*

JEOL

October 2020

Sunda	iy	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2	3
	4	5	MS&T Materials Sci & Tech Pittsburgh, PA October 6-7, 2020	7	8	9	10
SOFT San Antonio, TX	11	Columbus Day Thanksgiving (Canada)	Gulf Coast Conference Galveston, TX October 13-14, 2020	SERMACS - Southeastern Regional Meeting of ACS New Orleans, LA October 14-17, 2020 NEAFS - Northeast Assoc. of Forensic Scientists Groton, CT October 14-17, 2020	15	16	17
SERMACS Savannah, GA	18	19	20	21	22	23	24
	25	AAPS - American Assoc. of Pharmaceutical Scientists New Orleans, LA October 26-28, 2020	27	28	29	30	Halloween 31



Cheese Volcano Egg surface of mosquito Aedes aegypti Rachel Rachid, Jander Matos, Diego Regalado Center for Analysis of Biomedical Phenomena of the University of State of Amazonas - CMABio/UEA - JEOL JSM-IT500HR SEM



November 2020

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Daylight Savings 1 Ends	2	3	4	5	6	7
8	9	10	Veteran's Day 11 Remembrance Day (Canada)	12	13	14
15	Revolution Day (Mexico) 16	EAS - Eastern Analytical Symposium & Expo Plainsboro, NJ November 16-18, 2020 ISTFA Pasadena, CA November 17-18, 2020	18	19	20	21
22	23	24	25	Thanksgiving 26	27	28
29	30					



Lipid Reindeer Fat body Lipids inside 3rd Instar Drosophila Melanogaster larvae Lita Duraine, Howard Hughes Medical Institute - JEOL 1400 Plus

December 2020

JEOL December 2020							
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
		MRS - Materials Research Society Boston, MA December 1-3, 2020	2	3	4	5	
6	7	8	9	Hanukkah Begins 10 at Sundown	11	12	
13	14	15	16	17	18	19	
20	Winter Begins 21	22	23	24	Christmas 25	Boxing Day (Canada) 26 Kwanzaa Begins	
27	28	29	30	New Year's Eve 31			



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.