

2018 CALENDAR

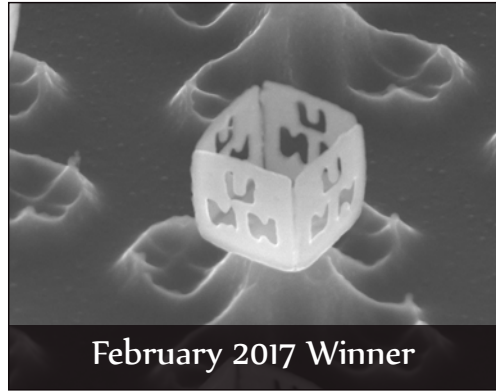


Featuring 2017 Winning Images





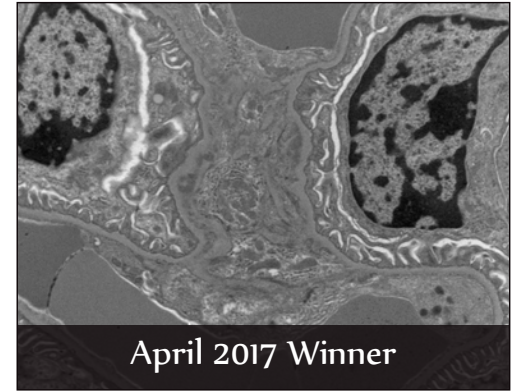
January 2017 Winner



February 2017 Winner



March 2017 Winner



April 2017 Winner



May 2017 Winner



June 2017 Winner



July 2017 Winner



August 2017 Winner



September 2017 Winner



October 2017 Winner



November 2017 Winner



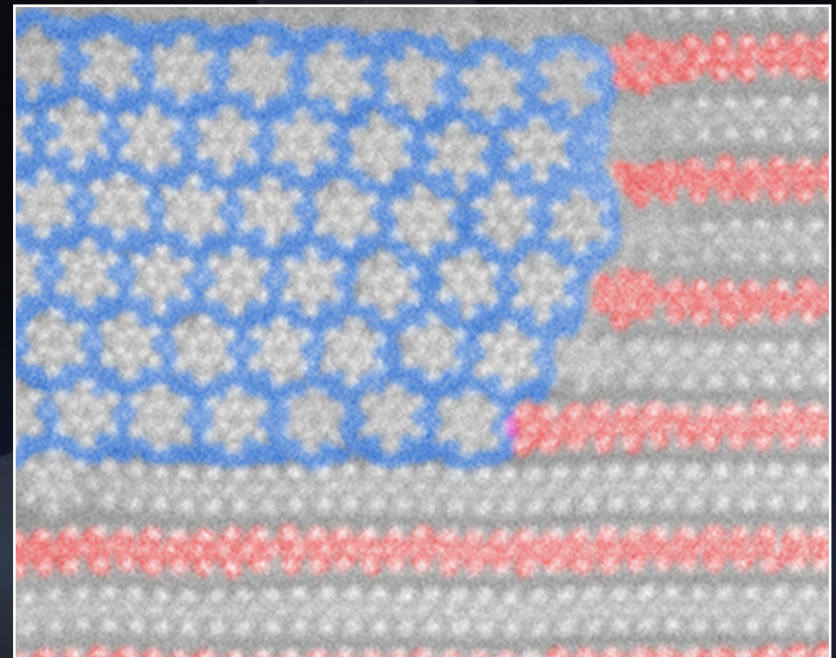
December 2017 Winner

2018 CALENDAR

Featuring 2017 Winning Images

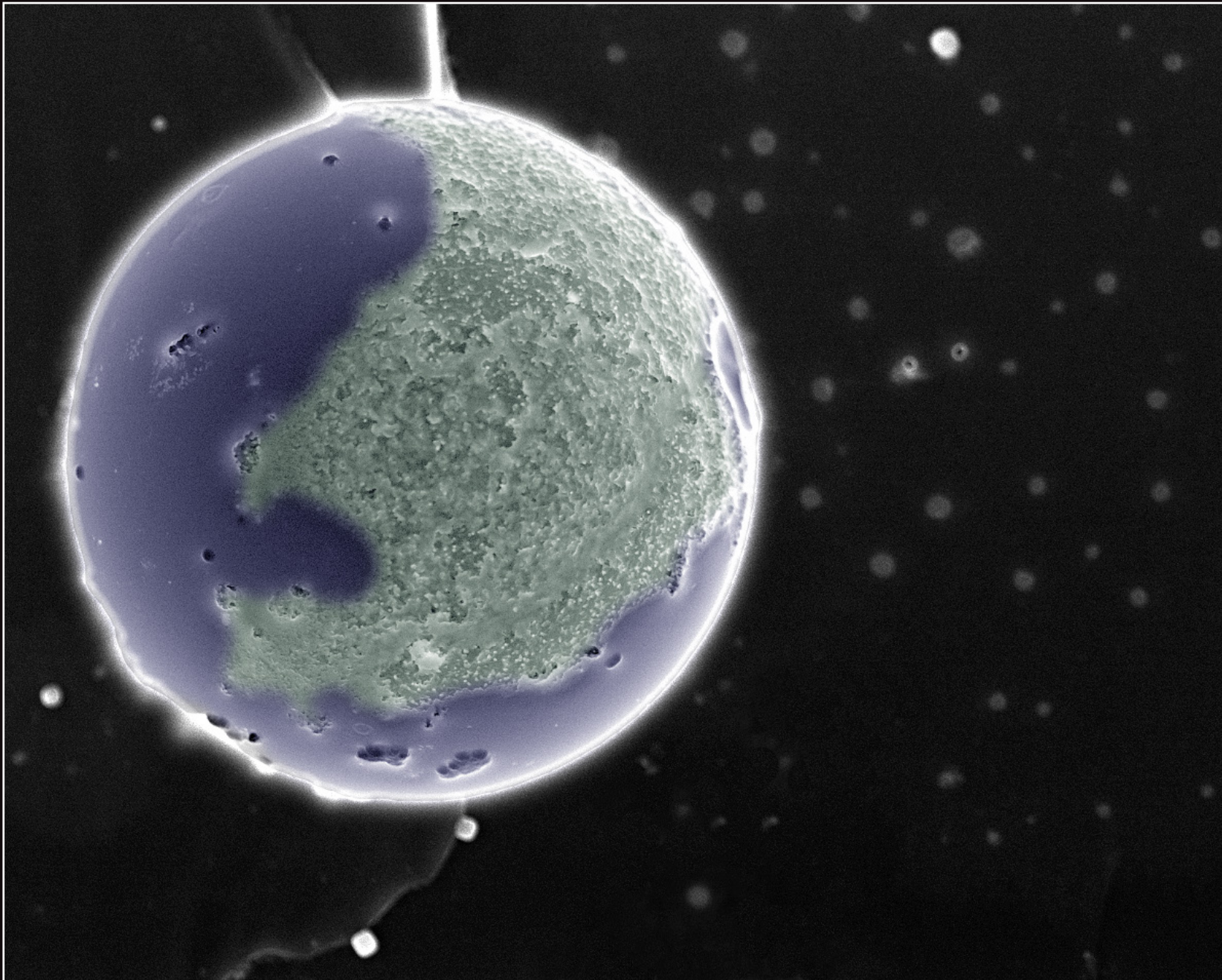
JEOL USA would like to thank all of our customers who have submitted images to our 2014, 2015, 2016, and 2017 Image Contests. We have received many outstanding images that are posted in a gallery on our website at www.jeolusa.com/winners.

We invite JEOL SEM, TEM, and EPMA users to enter the JEOL USA 2018 image contest. A prize will be awarded for each month, with a Grand Prize TEM and SEM or EPMA image announced at the end of the year. Contest guidelines are on our website.



Grand Prize SEM Winner * "Nano Nemo on the Water"
Nano-sized layers of Ti_2C particles representing the imaginary Nemo character
in Pixar's "Finding Nemo" animation - JEOL JSM-7000F SEM
Armin Vahid Mohammadi and Majid Beidaghi - Auburn University

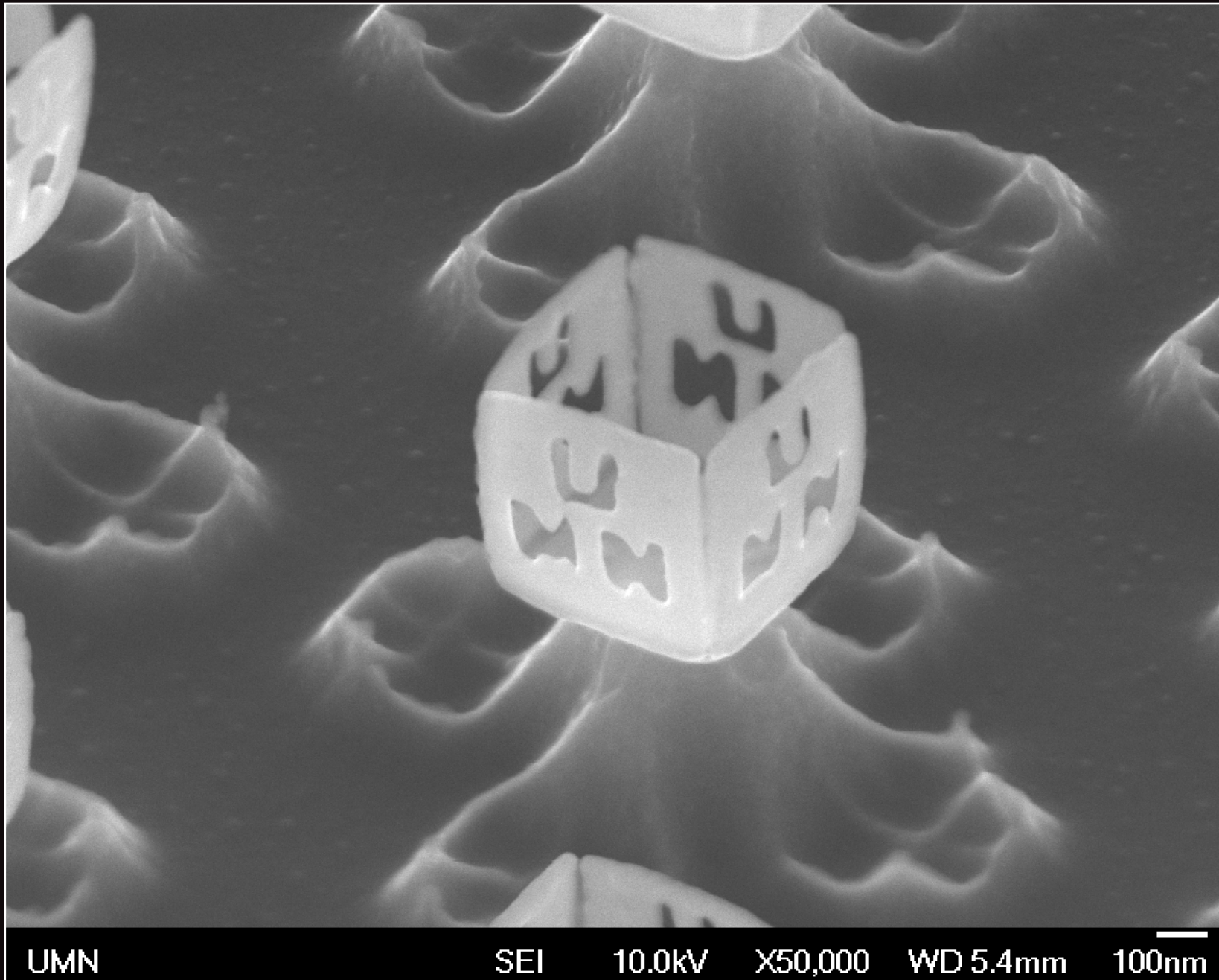
Grand Prize TEM Winner * "NanoFlag"
Atomic scale Mo_6Te_6 nanowires transformed from parent $MoTe_2$ 2D layers.
Each Mo_6Te_6 nanowire, 0.8 nanometers in diameter, consists of six molybdenum (Mo)
atoms surrounded by six tellurium (Te) atoms. JEM-ARM200F TEM.
Prof. Moon Kim, Qingxiao Wang, and Aaron Klick, University of Texas at Dallas.



"Another Earth or..."

A pore in bioglass - SEI image - JEOL JSM-7600F SEM
Nina Daneu - Jožef Stefan Institute, Ljubljana, Slovenia

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	New Year's Day 1	2	3	4	5	6
7	8	Society of Forensic Toxicologists (SOFT) Annual Meeting Boca Raton, FL 1/9-1/11 9	10	11	12	13
14	Martin Luther King, Jr. Day 15	16	Gulf Coast Conference Houston, TX 1/17-1/18 17	18	19	20
21	22	23	24	25	26	27
28	International QNMR Summit Tokyo Japan 1/29-1/30 29 	30	31		"Iceberg" Surface morphology of Gallium Arsenide. Sergey and Alexander Temchenko, SSTechnology.	



"3D Nanocube"

Self-assembled three-dimensional (3D) nano-cube with surface patterns of "UMN" - JEOL JSM-6700 SEM
Chunhui Dai - University of Minnesota Twin Cities

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
 <p>"Turquoise Glade" Gallium arsenide nanocrystalline surface. Sergey and Alexander Semchenko, SSTechnology</p>				1	2	3
4	5	6	7	8	9	10
11	12	13	Valentine's Day 14	15	Chinese New Year 16	17
18	President's Day 19	20	21	22	23	24
25	26	PITTCON Orlando, FL 2/27-3/1 Advanced Lithography San Jose, CA 2/27-2/28	27	28	"Blooming Microflora" Manganese oxide platelets. Richa Agrawal, Florida International University	



SEM



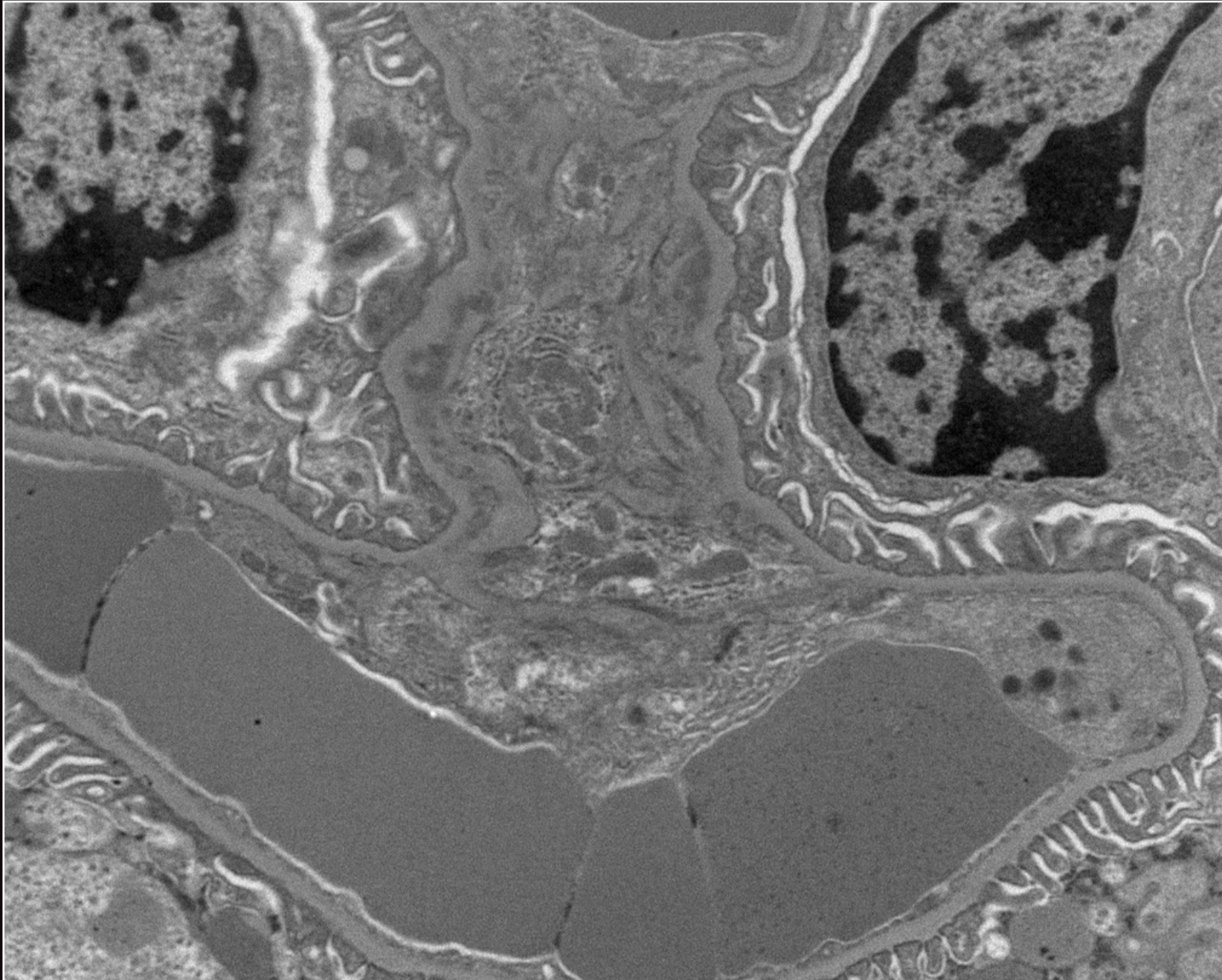
"Nano Nemo on the Water"

Nano-sized layers of Ti₂C particles representing the imaginary Nemo character in Pixar's "Finding Nemo" animation - JEOL JSM-7000F SEM
Armin Vahid Mohammadi and Majid Beidaghi - Auburn University



March

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday		
	"Balls of Wool" Cristobalite spherules and clinoptilolite clusters. Patricia Zurita, Petricore			1	2	3		
PANIC NMR La Jolla, CA 3/4-3/8	4	5	6	7	8	9	10	
Daylight Savings Begins	11	12	13	14	15	16	St. Patrick's Day 17	
ACS Spring New Orleans, LA 3/18-20	18	19	Spring Begins 20	CryoEM 3D Workshop Lake Tahoe, CA 3/21-24	21	22	23	24
Palm Sunday	25	26	27	28	29	Good Friday Passover	30	31



"Smiley Face Emoji"

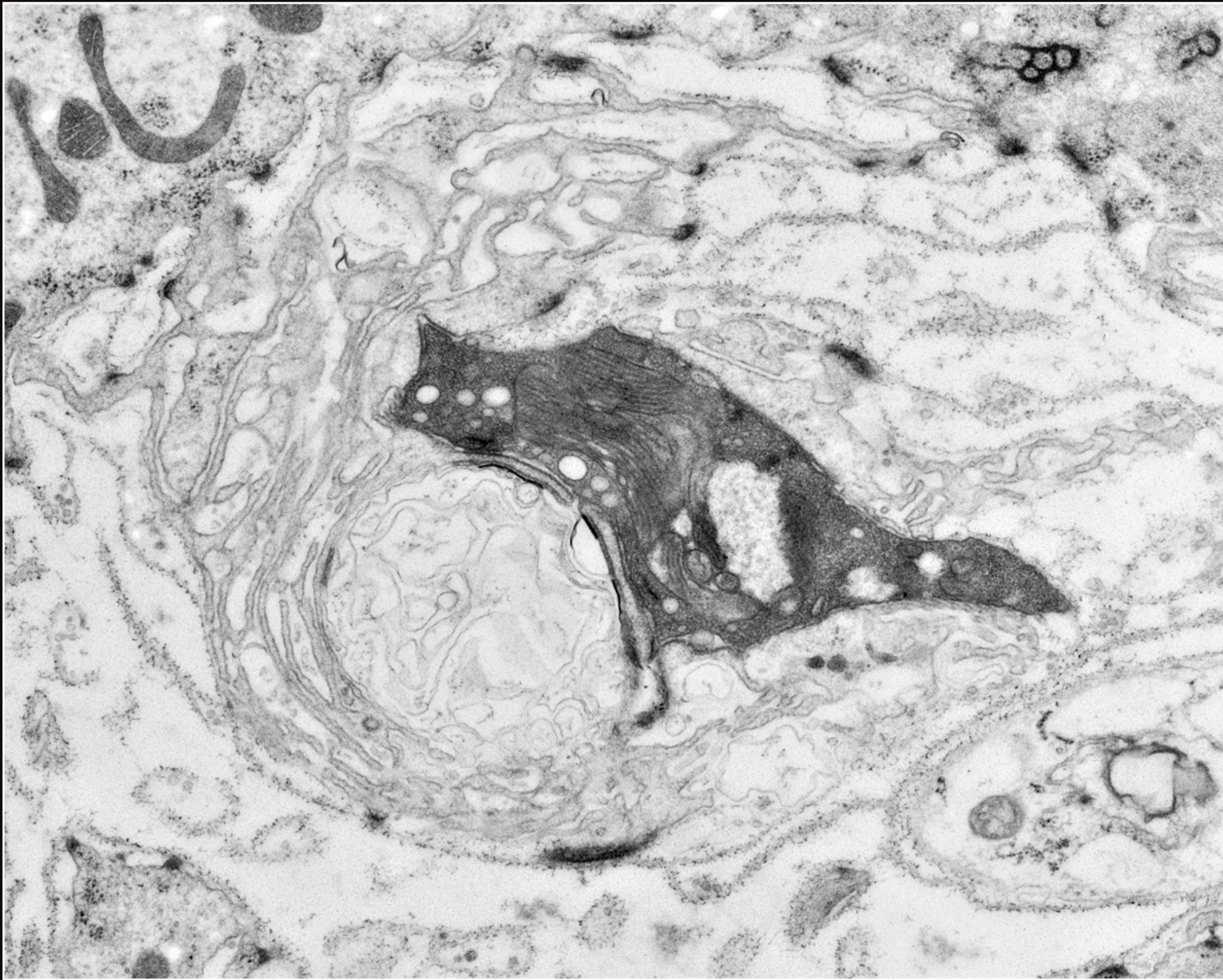
Mouse kidney glomerulus - JEOL JEM-1010 TEM

Research investigator - Bernard Ayanga, Electron microscopist: Kenneth Dunner Jr - UT MD Anderson Cancer Center



April

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Easter 1	Easter Monday (Canada) 2	Drug Discovery Chemistry San Diego, CA 4/3-4/5 3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
Experimental Nuclear Magnetic Resonance Conference (ENC) Orlando, FL 4/29-5/4 29	30				"Biomimic" Symmetrical branched 1D cactii-like nanostructures. Tejasvinee Bhat, Thin Film Materials Laboratory, Department of Physics, Shivaji University	 2010 X10,000 T100 0002 SUK-PHY



"Cat and Ball"

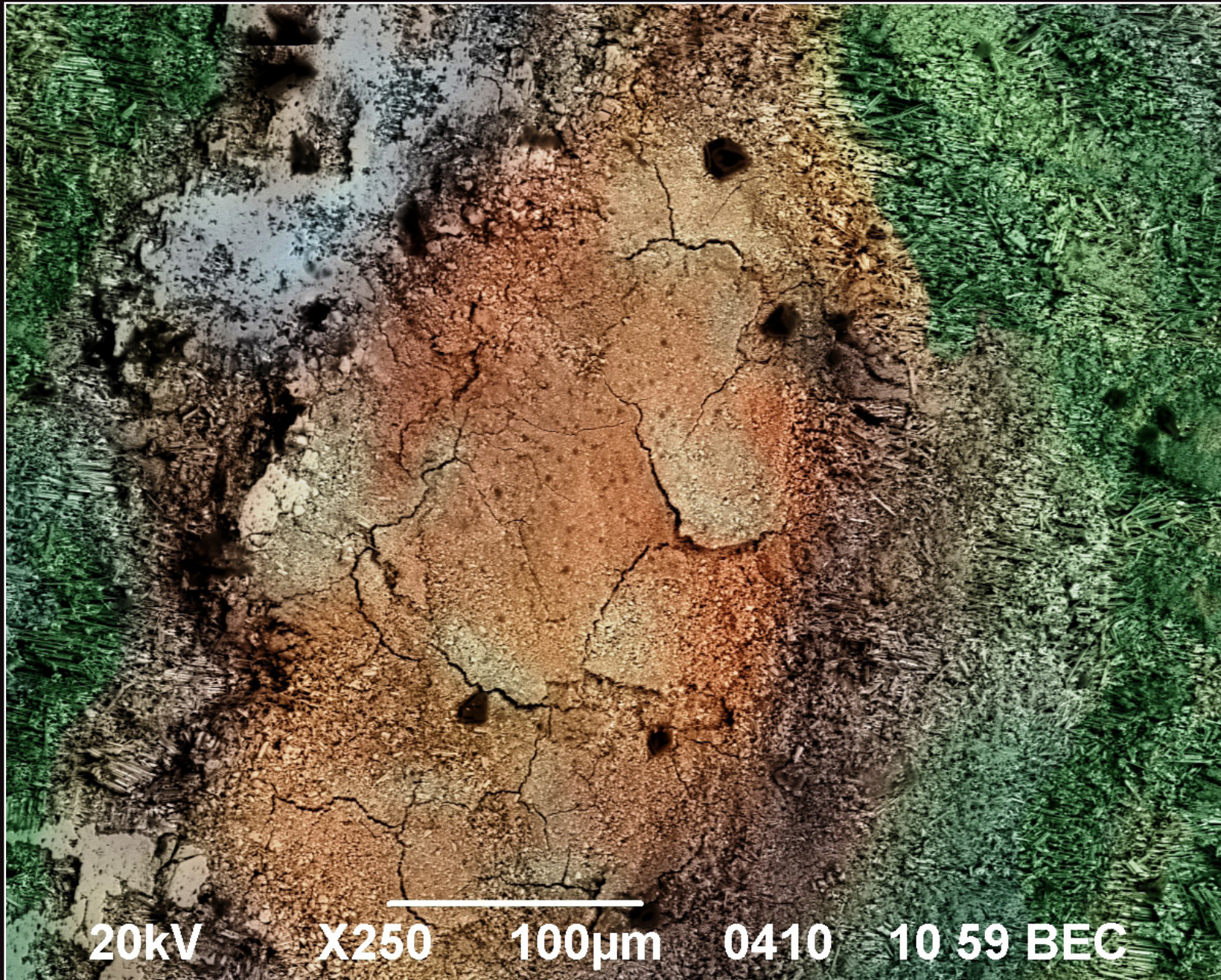
Drosophila melanogaster neuromuscular junction with bouton - JEM-1010 TEM

Lita Duraine - Howard Hughes Medical Institute



May

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	<p>"Atomic Flowers" Individual nanowires consisting of 6 Mo atoms and 6 Te atoms. Prof. Moon Kim, University of Texas at Dallas.</p>	<p>Ceramics Expo Cleveland, OH 5/1-5/3</p>				<p>Cinco de Mayo Battle of Puebla Day (M)</p>
	<p>CS Mantech - Compound Semiconductor Mfg & Tech Austin, TX 5/7-5/9</p>			<p>Pittsburgh NMR Workshop Pittsburgh, PA 5/10-5/11</p>		
<p>Mother's Day</p>			<p>Mid-Atlantic Association of Forensic Scientists Hunt Valley, MD 5/16-17</p> <p>Southeastern Microscopy Society Columbia, SC 5/16-18</p>			
	<p>Victoria Day (Canada)</p>					
	<p>Memorial Day</p> <p>Electron, Ion, & Photon Beam Technology & Nanofabrication (EIPBN) Rio Grande, PR 5/28-6/1</p>					



"Drought"

Surface morphology of porous gallium arsenide - JEOL JSM-6490 SEM
Sergey and Alexander Simchenko - SSTehnology

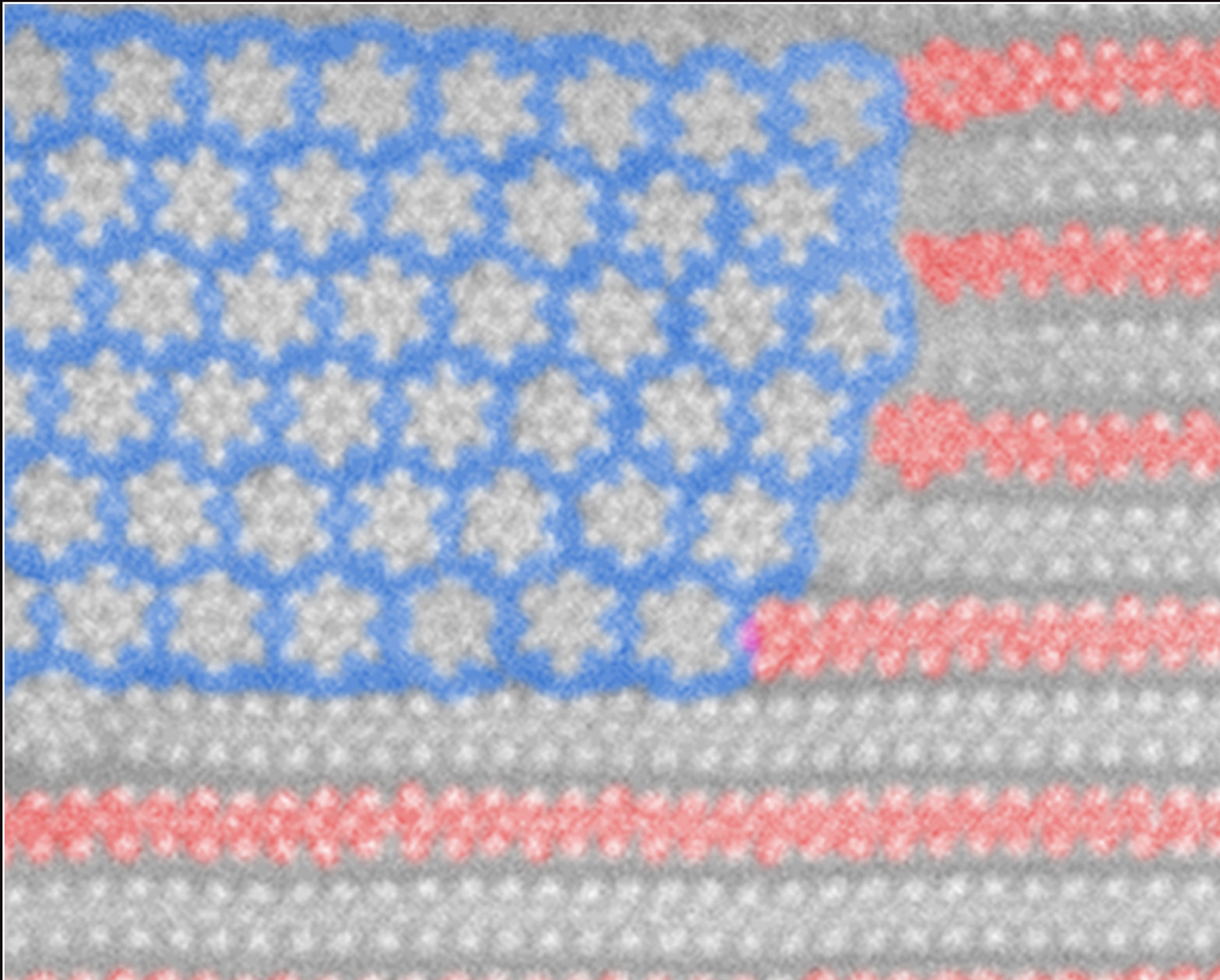


June

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday		
	Wrinklons in CVD graphene. Scott Heise, Lockheed Martin Advanced Technology Center				1	2		
American Society for Mass Spectrometry (ASMS) San Diego, CA 6/3-6/7	3	4	5	6	7	8	9	
10	11	12	13	Flag Day	14	15	16	
Father's Day	17	18	19	20	Summer Begins	21	22	23
St. Jean Baptiste Day (Que.)	24	25	26	27	28	29	30	



TEM

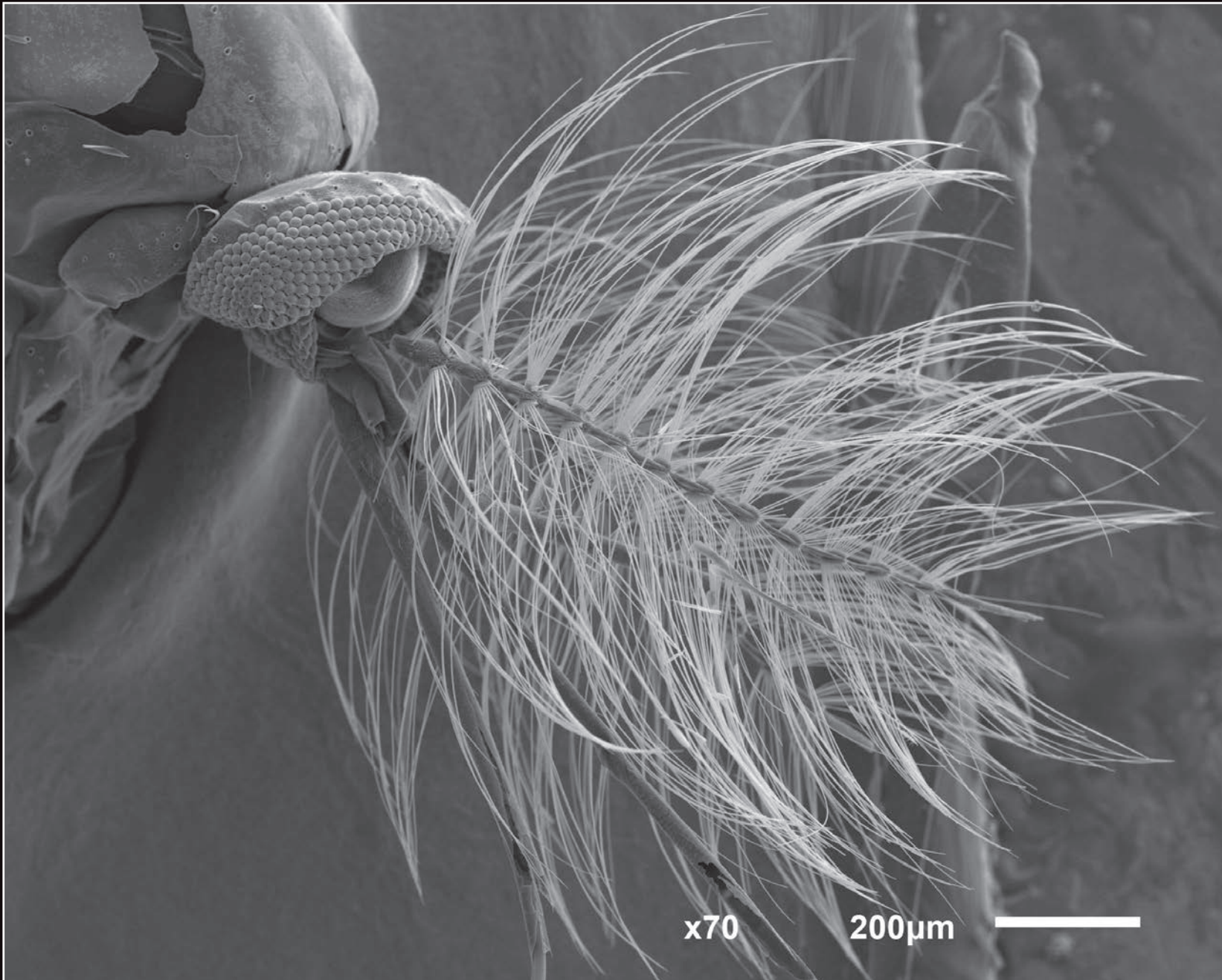


"NanoFlag"

Atomic scale Mo_6Te_6 nanowires transformed from parent MoTe_2 2D layers. Each Mo_6Te_6 nanowire, 0.8 nanometers in diameter, consists of six molybdenum (Mo) atoms surrounded by six tellurium (Te) atoms. JEM-ARM200F TEM.

Prof. Moon Kim, Qingxiao Wang, and Aaron Klick, University of Texas at Dallas.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Canada Day (Canada) 1	2	3	Independence Day 4	5	6	7
8	9	SEMICON West San Francisco, CA 7/10-7/12 10	11	12	13	14
15	16	17	18	19	20	American Society of Pharmacognosy Lexington, KY 7/21-25 21
22	Rocky Mountain Conf. on Magnetic Resonance Snowbird, UT 7/23-7/25 23	24	25	26	27	28
29	30	31			Onax shell drilled by predatory naticid gastropod. Whitney Lopic, Mount Holyoke College.	



"Duster"
Mosquito face - JEOL JSM-6510
Patricia Zurita - Petricore



August

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	Bilivirden Nanoflowers Parinaz Fathi, University of Illinois at Urbana-Champaign		1	2	3	4
5	Civic Holiday (Canada) Microscopy & Microanalysis (M&M) MSC-SMC Baltimore, MD 8/6-8/9	6	7	8	9	10
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	Cannabis Science Conference Portland, OR 8/27-8/29	27	28	29	30	31

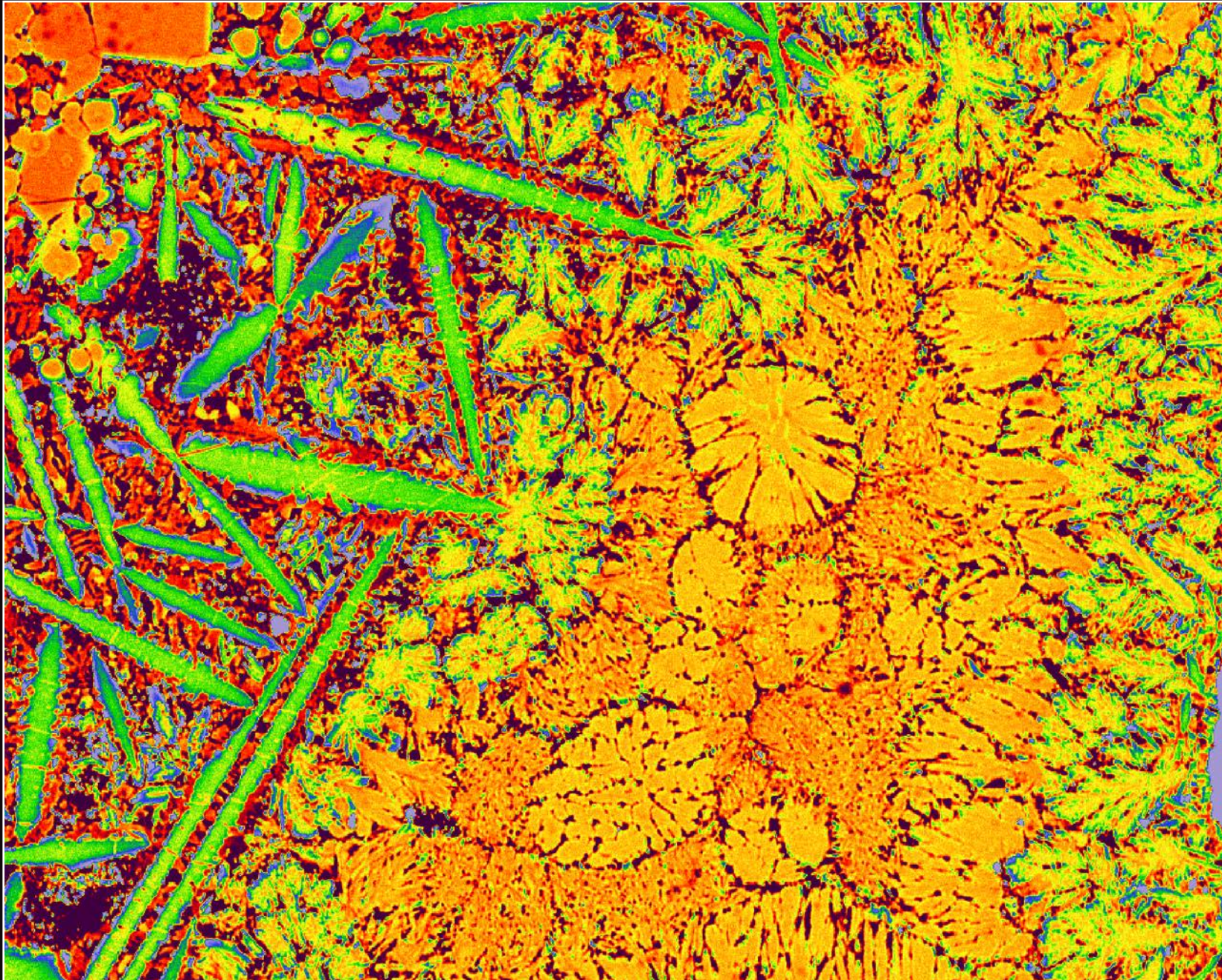


"Flea"

30X, alcohol paint, Photoshop for colors - JSM-6610LV SEM

Sheri Neva, EAG Laboratories

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	<p>"Take a Bow" Platinum nanocrystals grown vertically during electroless deposition. Cian McKeown, Univeristy of Limerick</p>					1
2	Labor Day 3	4	5	6	7	8
Rosh Hoshanah 9	10	11	12	13	14	15
Independence Day (Mexico) 16 SMASH NMR Philadelphia, PA 9/16-9/19	Midwestern Forensic Society (MAFS) Indianapolis, IN 9/17-9/21 17	Yom Kippur 18	19	20	21	Autumn Begins 22
23	24	25	26	27	28	29
30						

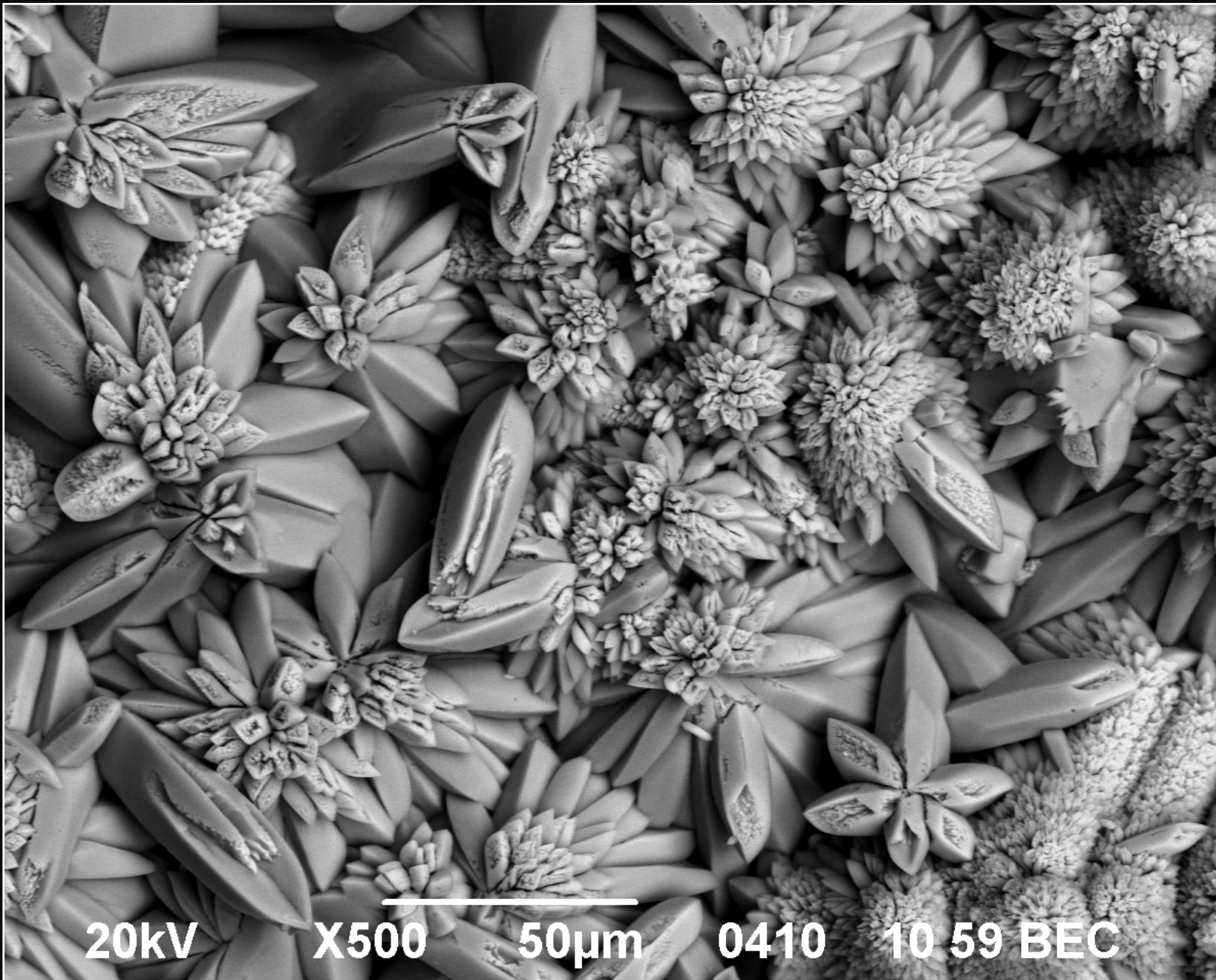


"Crystallized"

Quench crystals in a high pressure experiment - JEOL JXA-8900R EPMA

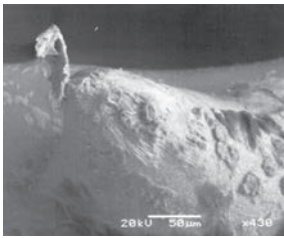
Anette von der Handt - University of Minnesota

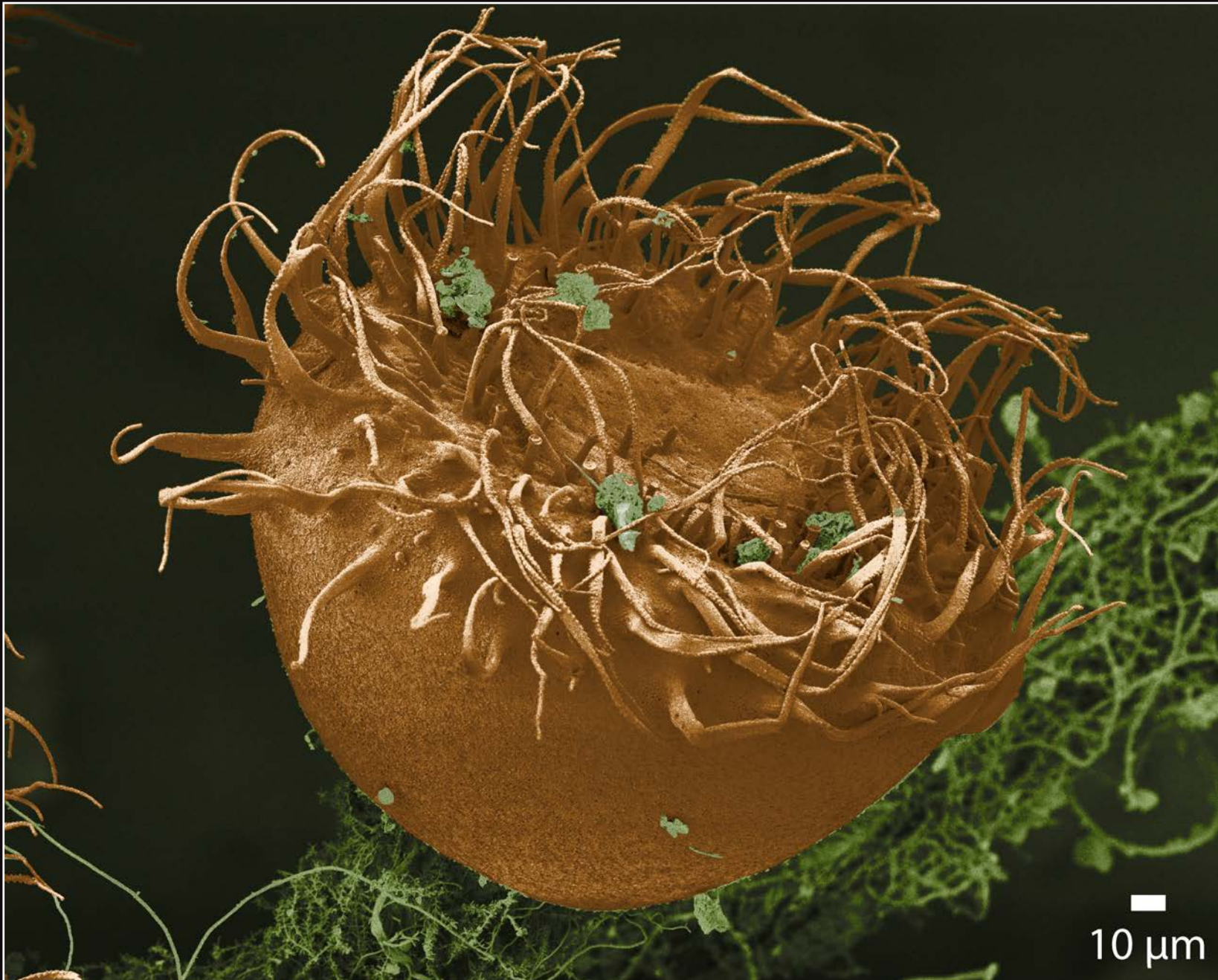
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4	5	6
SOFT - Society of Forensic Toxicologists Minneapolis, MN 10/7-12	Columbus Day Thanksgiving (Canada)					
American Institute of Chemical Engineers (AIChE) Pittsburgh, PA 10/28-30		Int'l. Symposium for Testing & Failure Analysis (ISTFA) Phoenix, AZ 10/30-31	Halloween SERMACS Southeastern Regional Meeting ACS Augusta, GA 10/31-11/3		"Tranquil Meadow" TEM image of Cu-oxide nano-wires growing from bulk Cu on amorphous carbon support grid. Janez Zavašnik, Jožef Stefan Institute	



"Stone Flowers"

Morphology of a gallium arsenide nanocrystalline surface - JSM-6490 SEM
Sergey and Alexander Semchenko, SSTehnology

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
	<p>"Supramolecular Forest" Benzenetricarboxamide polymerization. Michael VandenBerg, University of Notre Dame</p>		<p>"Thanksgiving Turkey" Solder from electrical assembly Stu Smalinskas, SKF USA</p>	1	2	3	
<p>Daylight Savings Ends</p>	4	5	6	7	8	9	10
<p>Veteran's Day Remembrance Day (Canada)</p>	11	12	13	14	15	16	17
18	19	20	21	Thanksgiving	22	23	24
25	26	27	28	29	30		
		<p>Fall MRS - Materials Research Society Boston, MA 11/27-29</p>					



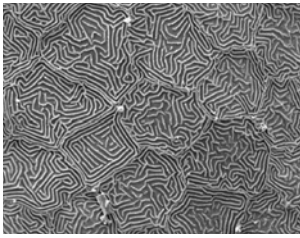
"Suctorina"

Marine ciliate protist (Suctorina)

Megan McCuller, Southern Maine Community College taken on a JEOL JSM-7100FLV at Bates College



December

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
 <p>"What a Maze" Zebra Fish tail skin. Elizabeth Sumner, Kenneth Dunner Jr., UT MD Anderson Cancer Center</p>						1
Hanukkah 2	3	4	5	6	7	8
9	10	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					

