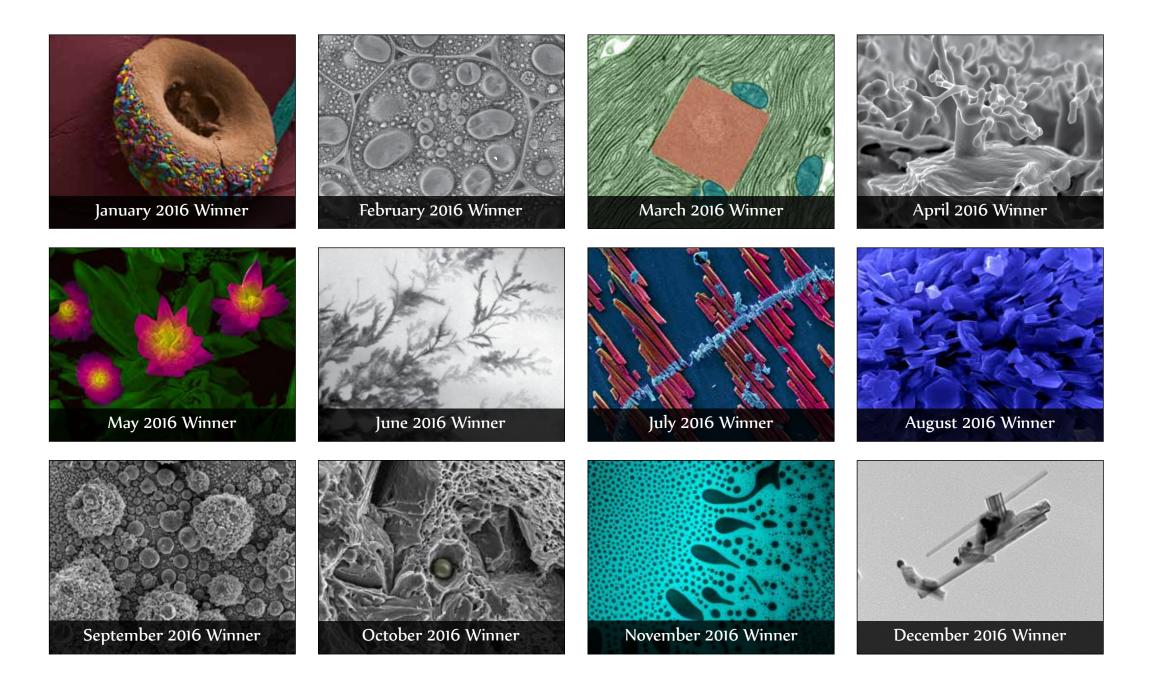
2017 CALENDAR



Featuring 2016 Winning Images





2017 CALENDAR Featuring 2016 Winning Images

JEOL USA would like to thank all of our customers who have submitted images to our 2014, 2015, and 2016 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 2017 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.



Honorable Mention 2016

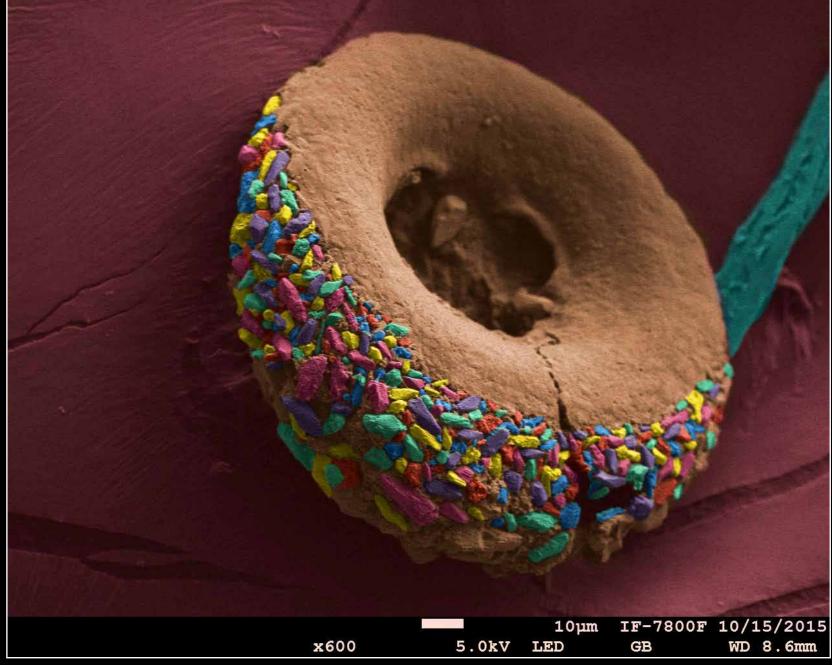
"Tree"

Mosquito leg gold coated and imaged in SEI at 800X, stitched, Photoshop color and edits.

Sheri Neva, EAG Laboratories, JSM-6610LV

JEOL USA * 11 Dearborn Road * Peabody, MA 01960 * 978-535-5900 * www.jeolusa.com * salesinfo@jeol.com





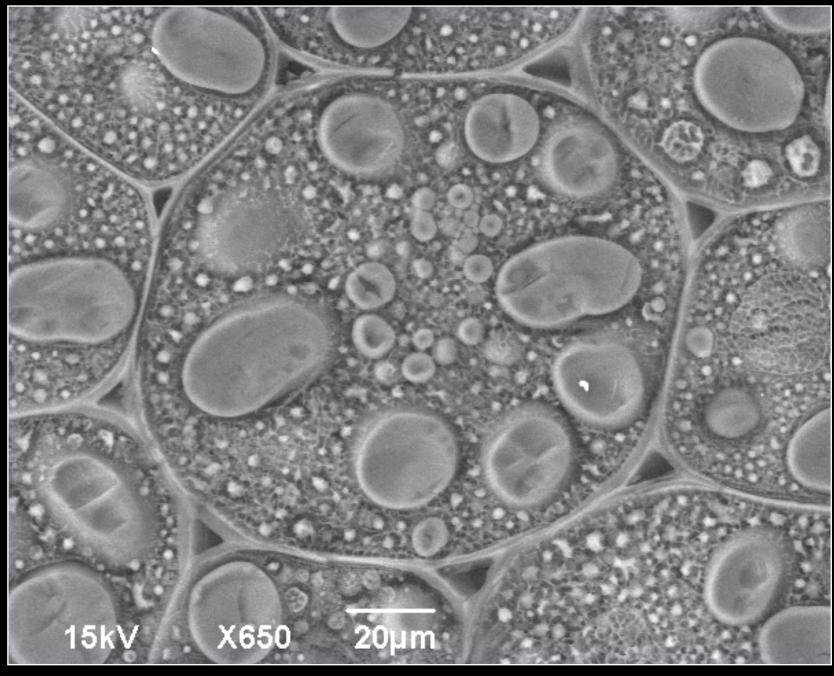
"Sweet Donut"

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January

Sunday		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
New Year's Day	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	Martin Luther 16 King, Jr. Day	17	18	19	20	21
2	22	23	24	25	26	27	Chinese New Year
2	29	30	31			"Night Sky Observed from a Cave" A 3-D ceramic square lattice with a trapped flaky particle; Dr. Lisa Kleiminger, Imperial College London, UK; JSM-6400 SEM	





"Hydrated Lentil"

Cooked, fully-hydrated lentil showing starch microstructure.

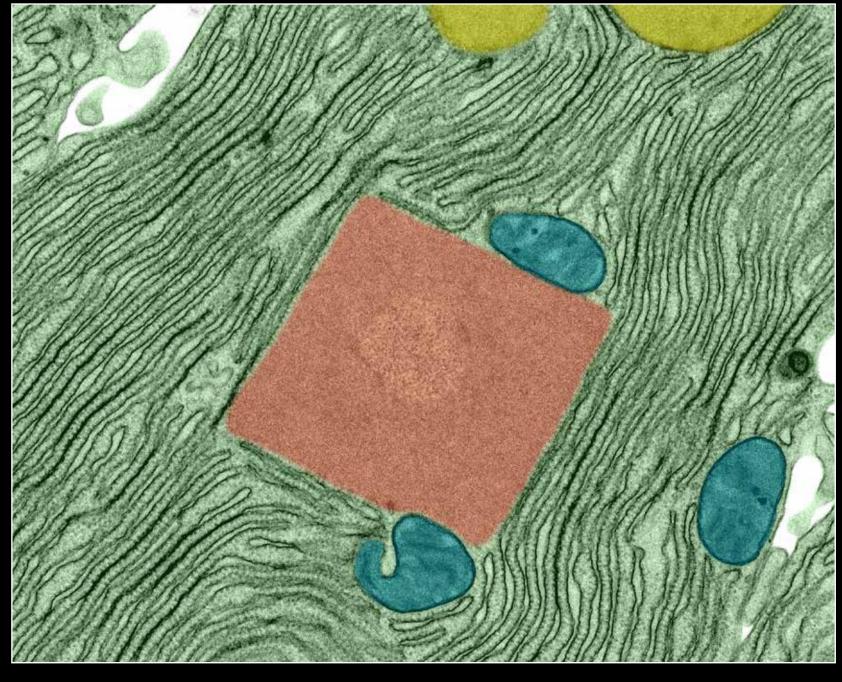
Scott Payne, North Dakota State University Electron Microscopy Core Facility; JEOL JSM-6490LV; Brass cryo-puck; frozen in liquid nitrogen, fractured using a pre-cooled razor blade. Puck transferred cold to SEM in LVmode (30 Pa); allowed to sublime for 10 minutes to remove any frost. BSE shadow mode at 15 kV.

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February

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Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	"3D nanoflowers"; TiO2 nanoflowers synthesized via hydrothermal method; Neha Desai, Department of Chemistry, Shivaji University, Kolhapur; JSM-6360A.		1	2	3	4
5	6	7	8	9	10	11
Biophysical Society New Orleans, LA Sponsor 2/12-2/14	Nano-Tailored Semiconductor Devices (NTSD) Sao Paulo, Brazil 2/13-2/17	Valentine's Day 14	15	16	17	18
19	President's Day 20 PANIC NMR Hilton Head, SC 2/20-2/23	21	Flag Day 22 (Mexico)	23	24	25
26	27	Advanced Lithography 28 San Jose, CA 2/28-3/I			"Iceberg"; Surface morphology of gallium arsenide; Sergey Simchenko and Snezana Salikova, Berdyansk State Pedagogical University; JSM-6490	104V 1782 30500 5410 10 40 563





"Hip to Be Square"

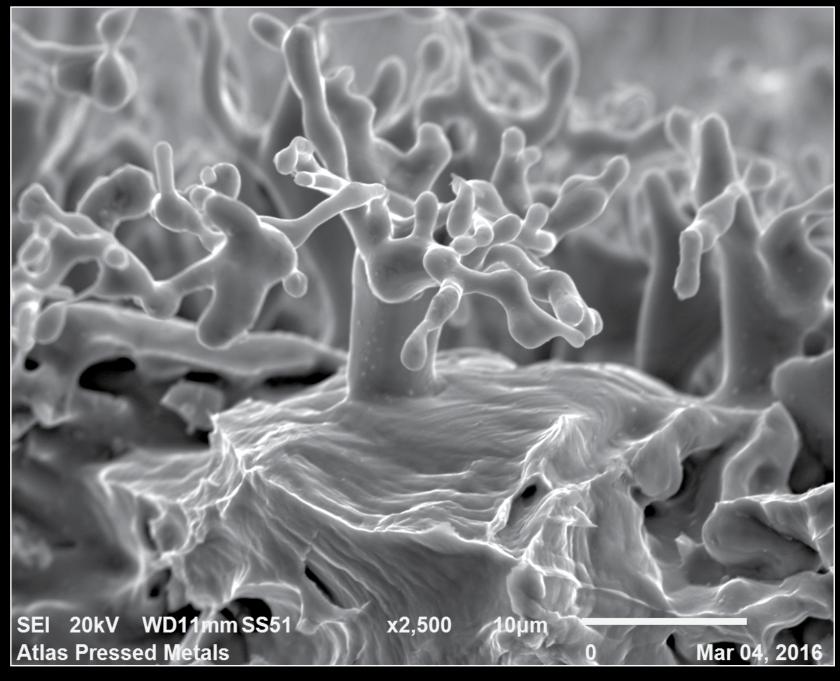
Psuedocolored TEM image of mouse pancreatic acinar cell. (Red = Paracrystalline inclusion body; Yellow = secretory granules; Blue = mitochondria; Green = cytoplasm filled with rough endoplasmic reticulum.) Patrick Nahirney, University of Victoria; JEM 1400 Image captured at 25,000 times magnification with a Gatan Orius SC1000 camera

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March

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	"Beauty of Natural Designs" - Detail of microscopy glands in the body of an insect of the genus Petrusa; Jose Almodovar, University of Puerto Rico, Mayaguez Campus; JEOL 5410 LY	,	Ash Wednesday]	2	3	4
	PITTCON Chicago, IL 3/6-3/9	7	8	9	10	11
Daylight Savings 1 Begins	2 13	14	15	16	St. Patrick's Day 17	18
1	9 Spring Begins 20	21	22	23	24	25
ENC Pacific Grove, CA 3/26-3/31	5 27	28	29	30	31	

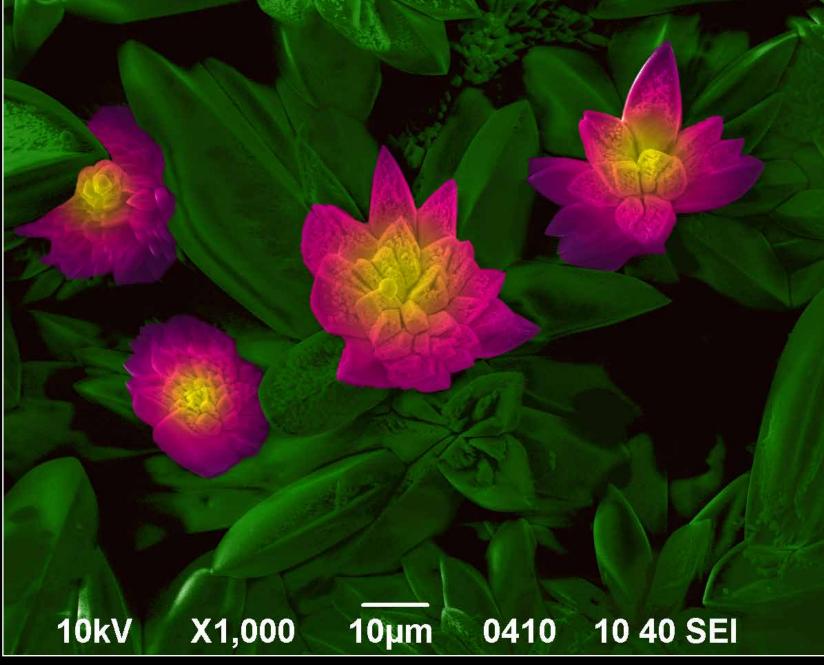




JEOL	April
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Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	Connecting cilium of a C57BL/6J mouse rod photoreceptor; Stefanie Volland, UCLA; JEM-1200-EX					1
Spring ACS San Francisco, CA 4/2-4/4	3	4	5	6	7	8
Palm Sunday 9	Passover Begins 10	11	12	13	Good Friday 14	15
Easter 16	Easter Monday 17 (Canada)	18	19	20	21	Earth Day 22
23	24	Ceramic Expo Cleveland, OH 4/25-4/27	26	27	28	29
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"Asters"

Gallium arsenide nanocrystalline surface
Sergey Simchenko, Berdyansk State Pedagogical University; JSM-6490

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May

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	ASM Cleveland, OH 5/I-5/5	2	3	4	Cinco de Mayo Battle of Puebla Day (M) New England Society for Microscopy (NESM) Woods Hole, MA	6
7	8	9	Microscopical Society of Canada (MSC) Montreal, Quebec 5/10-5/11	11	12	13
Mother's Day 14	15	16	17	18	19	20
21	Victoria Day (Canada) Mid-Atlantic Association of Forensic Scientists (MAAFS) Pittsburgh, PA 5/22-25	23	24	25	26	27
28	Memorial Day 29	EIPBN Orlando, FL 5/30-6/2	31		Psuedo color STEM HAADF image of a single dislocation core in CdTe; Moon Kim, UT Dallas; JEM- ARM200F	



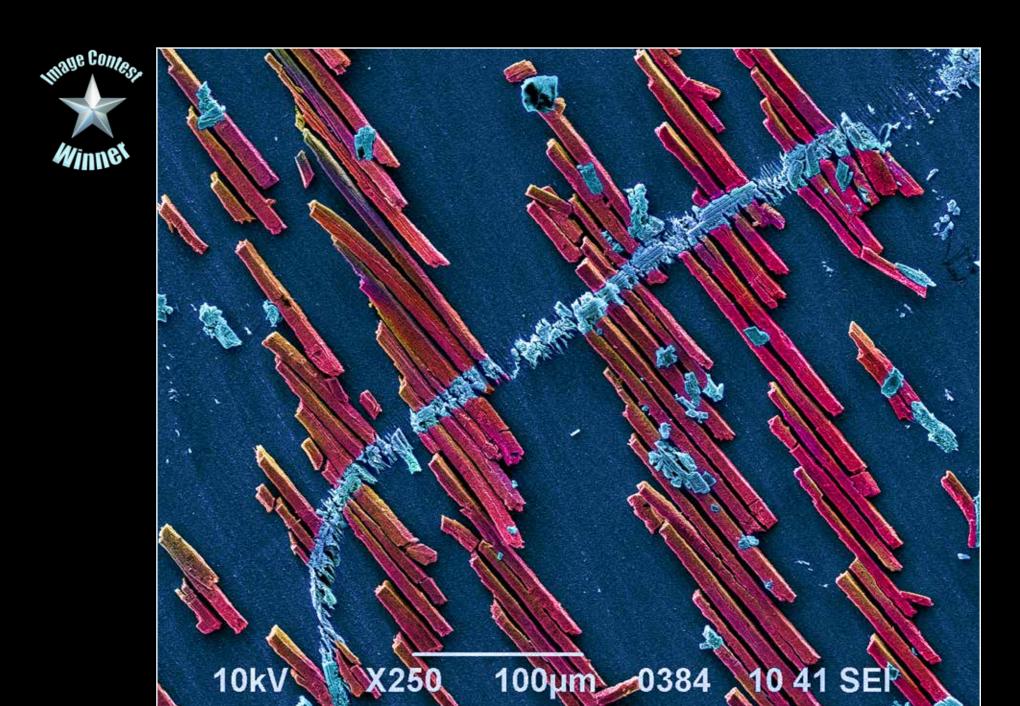


"Silicon Tree"

Co film-Si substrate sample synthesized through back-etching method.

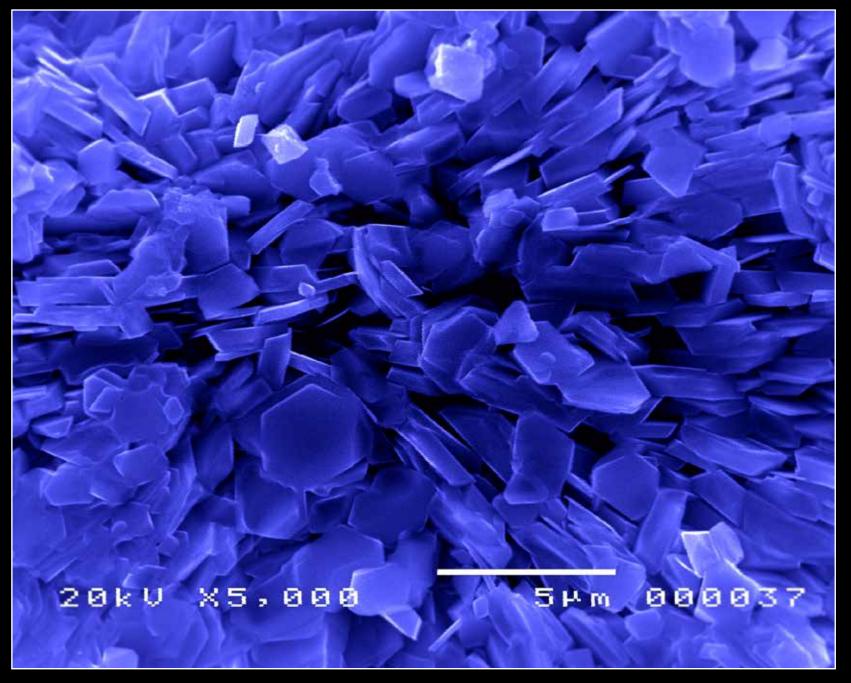
Boopathy Kombaiah, Prof. Greg Rohrer group, Carnegie Mellon University; JEOL 2000EX TEM Bright Field Image

JEOL			June			
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	Tick nymph (Arachnidae); Janez Zavašnik, Jožef Stefan Institute; JSM-5800			1	2	3
ASMS Indianapolis, IN 6/4-6/8 26° Congresso Brasileiro de Microscopia Rio de Janeiro 6/4-6/7	5	6	7	8	9	10
11	12	13	Flag Day 14	15	16	17
Father's Day 18	19	20	Summer Begins 21	22	23	St. Jean Baptiste 24 Day (Que.)
25	26	27	28	29	30	



JEOL			July			
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
WD-18 Same 35 NOV 4550 100pm	"Island" – Catalyst on silicon surface (111); Sergey Simchenko and Snezana Salikova, Berdyansk State Pedagogical University; JEOL JSM-6490					Canada Day 1 (Canada)
2	3	Independence Day 4	5	6	7	8
9	10	SEMICON West San Francisco, CA 7/11-7/13	12	13	14	15
16	17	18	19	20	21	22
1SMAR Quebec City 7/23-7/28 23	31	25	26	27	28	29





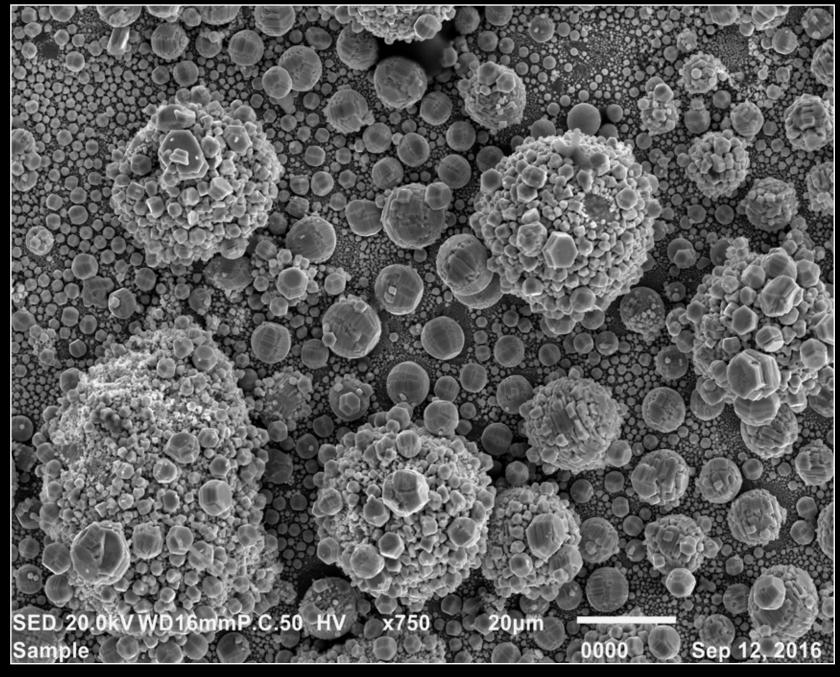
"Spacetime Evolving Nanoparticles"
ZnO nanostructures formed by wet oxidation in water with zinc chloride.
Christian Mak Pelicano, University of the Philippines Diliman; JSM-5300

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August

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Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	"Flames"- Hairs on the surface of an insect; Jose R Almodovar, University of Puerto Rico, Mayaguez Campus; JSM-5410 LV	1	2	3	4	5
6	Civic Holiday (Canada) Microscopy & Microanalysis St. Louis, MO 8/7-8/10	8	9	10	11	12
13	14	15	16	17	18	19
Fall ACS Washington, DC 8/20-8/22 XXVI International Materials Research Congress Cancún, México 8/20-8/25	21	22	23	24	25	26
27	28	29	30	31		



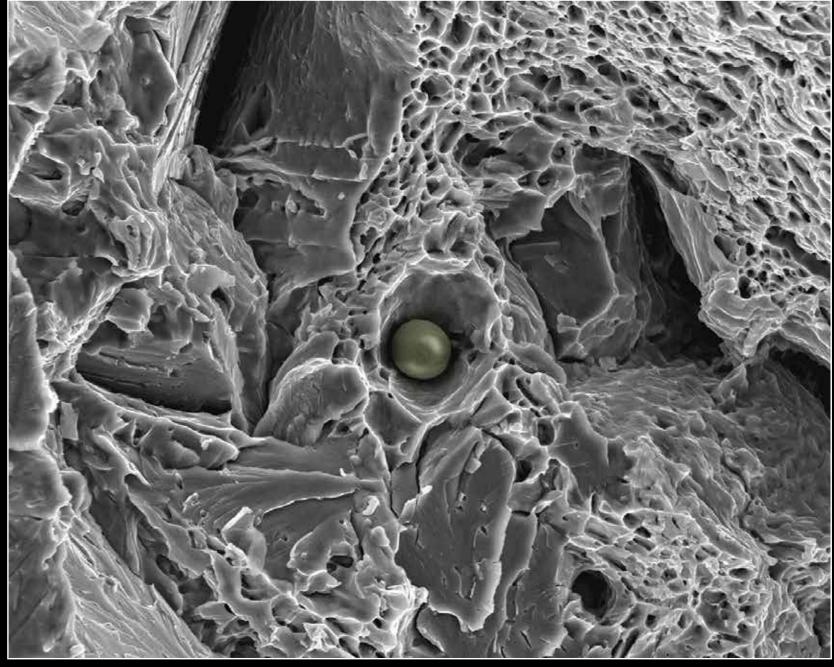


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September

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	"Meteorite" – Drop of melted aluminium on the surface of heated copper wire, in a forensic case of fire investigation; Steven Vargas, Departamento de Ciencias Forenses, Organismo de Investigación Judicial; JSM 6610LV				1	2
3	Labor Day 4	5	6	7	8	9
XVI Brazil MRS Meeting Gramado Rio Grande do Sul 9/10-9/14	SOFT Boca Raton, FL 9/11-9/14	12	13	14	15	Independence Day 16 (Mexico)
17	18	19	Rosh Hoshanah 20 Begins Midwestern Association of Forensic Scientists (MAFS)/ Southern Association of Forensic Scientists (SAFS)/ American Society of Trace Evidence Examiners (ASTEE) Cincinnati, OH 9/20-9/22	21	Autumn Begins 22	23
24	XIV CIASEM Congress 25 Varadero, Cuba 9/25-9/29	26	27	28	Yom Kippur 29 Begins	30





"Inclusion"

Throwing Knife – ductile and brittle fracture with an inclusion

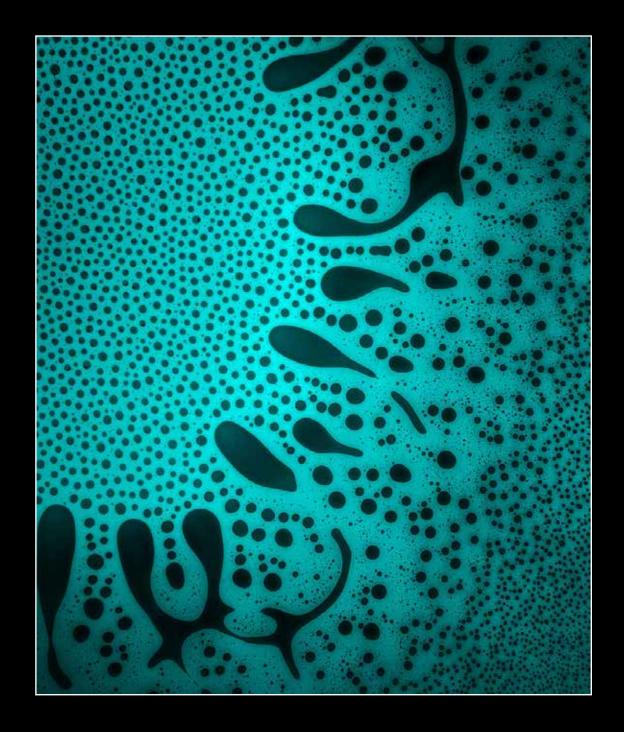
Sheri Neva, EAG; JSM-6610LV

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October

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Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	Gulf Coast Conference Houston, TX 10/3-10/4	4	5	6	7
8	Columbus Day Thanksgiving (Canada)	MS&T – Materials Science & Technology Pittsburgh, PA 10/11-10/12	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	Halloween 31			"Micro Moon" — Wear marks on PTFE ball bearing; Nicholas Seaton, University of Minnesota Characterization Facility	485 13 1867 NN 90 18 No. 10 No.





"Jumping Copper"

Copper nanoparticles synthesized in aqueous domains of a mineral oil /surfactant/water system.

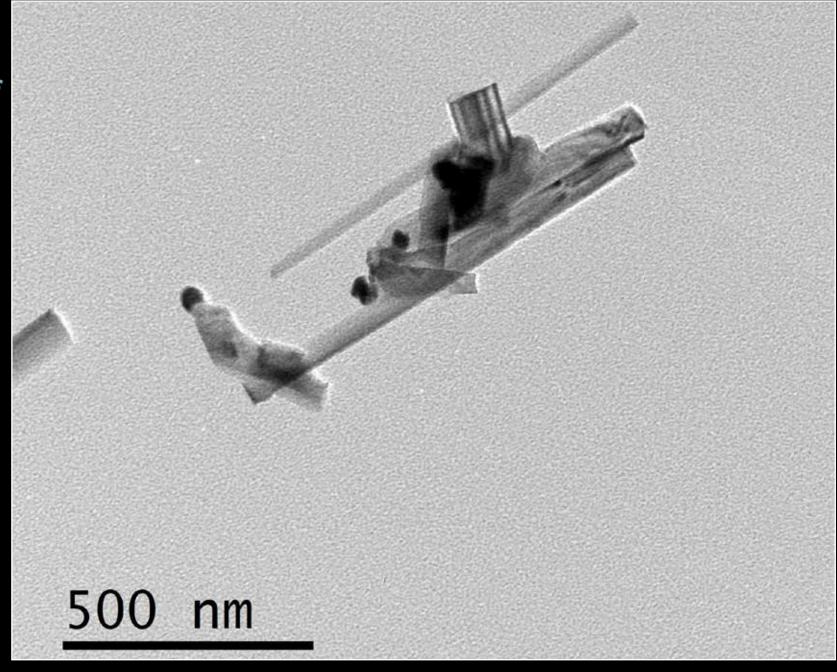
Irene Heggstad, University of Bergen, Norway; JEM-1011

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November

Sunday		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
A.		"Standing Alone" – Seta (bristle/hair) of a tick; Jeffrey Brookins, Michigan Technological University; JSM-6400.		1	2	3	4
Daylight Savings Ends	5	6	ISTFA Pasadena, CA 11/7-11/8 NEAFS Pocono Manor, PA 11/7-11/10	SERMACS Charlotte, NC 11/8-11/10	9	10	Veteran's Day Remembrance Day (Canada)
	12	EAS – Eastern Analytical Symposium Plainsboro, NJ 11/13-11/15	14	15	16	17	18
	19	Revolution Day 20	21	22	Thanksgiving Day 23	24	25
2	26	27	Fall MRS – Materials Research Society 11/29-12/1	29	30	"Iron Dew" — Iron droplets on an alumina substrate; Ezra Feilden, Imperial College London; JEOL 6010LA.	





"Nano-Helicopter"

GaN Nanowires

Chih-Chiang Yang, National Chiao Tung University; ARM200F TEM

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December

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	"Christmas Tree Farm" — Melted surface mount capacitor containing barium titanate along with nickel, copper, and tin crystals; Susan Kent, Continental AG; JSM-7100F FE-SEM				1	2
3	4	5	6	7	8	9
10	11	Hanukkah Begins 12	13	14	15	16
17	18	19	20	Winter Begins 21	22	23
Christmas Eve 24 31 New Year's Eve	Christmas Day 25	Boxing Day (Canada) Kwanzaa Begins	27	28	29	30

