

---

**INDEX TO ADVERTISERS**

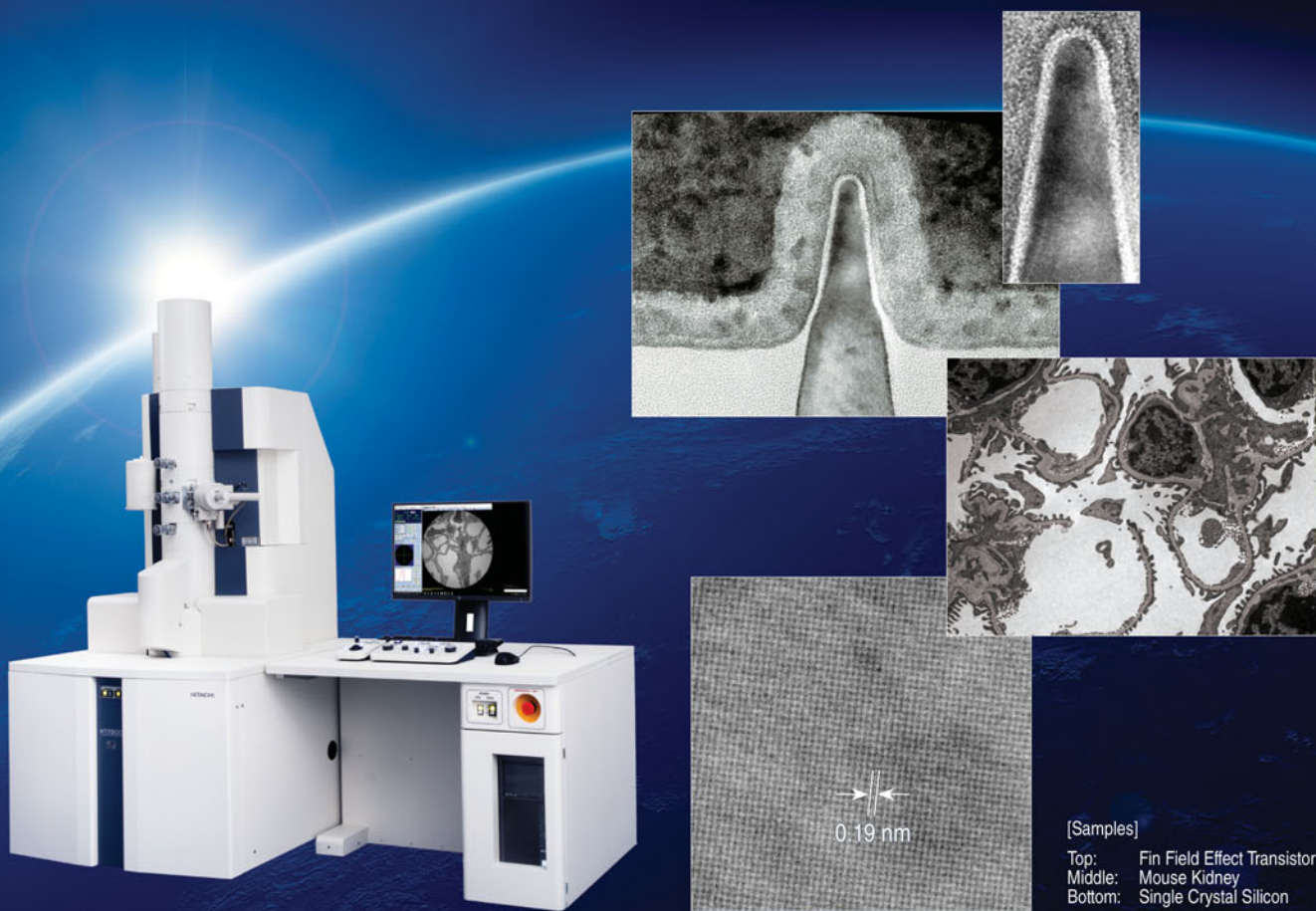
---

Diatome	Cover 3, A7
EDAX	A4
Electron Microscopy Sciences, EMS	Cover 2, A8
Hitachi	Cover 4, A9

---

# The NEXT Generation of 120 kV TEM

Innovation, Performance, and Reliability—The Hitachi *HT7800* Series



[Samples]

Top: Fin Field Effect Transistor  
Middle: Mouse Kidney  
Bottom: Single Crystal Silicon

Hitachi's advanced electron optics and dual-mode lens technology redefine the boundaries of 120 kV TEM performance. With  $\leq 0.19$  nm on-axis resolution, the highest contrast in its class, and diverse analytical capabilities for Materials Science and Life Science fields, the *HT7800* Series provides a complete solution for all your TEM imaging needs.

For more details, contact us at: [hta-microscopy@hitachi-hightech.com](mailto:hta-microscopy@hitachi-hightech.com)

## Innovation ♦ Synergy ♦ Solutions



Science for a better tomorrow

© Hitachi High-Tech America, Inc.  
[www.hitachi-hightech.com/us](http://www.hitachi-hightech.com/us) Tel. 800-253-3053 E-mail: [hta-microscopy@hitachi-hightech.com](mailto:hta-microscopy@hitachi-hightech.com)



# Statement of Ownership, Management, and Circulation (All Periodicals Publications Except Requester Publications)

1. Publication Title MICROSCOPY AND MICROANALYSIS	2. Publication Number 021 - 917	3. Filing Date 10/1/2020
4. Issue Frequency FEBRUARY, APRIL, JUNE, AUGUST, OCTOBER, DECEMBER	5. Number of Issues Published Annually 6	6. Annual Subscription Price \$2364
7. Complete Mailing Address of Known Office of Publication (Not printer) (Street, city, county, state, and ZIP+4®) Cambridge University Press 1 Liberty Plaza New York, NY 10006		Contact Person Nina Iammatteo Telephone (Include area code) 2123375004
8. Complete Mailing Address of Headquarters or General Business Office of Publisher (Not printer) Cambridge University Press University Printing House, Shaftesbury Road Cambridge CB2 8BS		
9. Full Names and Complete Mailing Addresses of Publisher, Editor, and Managing Editor (Do not leave blank)		
Publisher (Name and complete mailing address) Cambridge University Press 1 Liberty Plaza New York, NY 10006		
Editor (Name and complete mailing address) John Mansfield 4304 Spring Lake Blvd. Ann Arbor, MI 48108-9657		
Managing Editor (Name and complete mailing address)		

10. Owner (Do not leave blank. If the publication is owned by a corporation, give the name and address of the corporation immediately followed by the names and addresses of all stockholders owning or holding 1 percent or more of the total amount of stock. If not owned by a corporation, give the names and addresses of the individual owners. If owned by a partnership or other unincorporated firm, give its name and address as well as those of each individual owner. If the publication is published by a nonprofit organization, give its name and address.)

Full Name	Complete Mailing Address
MICROSCOPY SOCIETY OF AMERICA	11130 SUNRISE VALLEY DR SUITE 350 RESTON, VA 20191

11. Known Bondholders, Mortgagees, and Other Security Holders Owning or Holding 1 Percent or More of Total Amount of Bonds, Mortgages, or Other Securities. If none, check box  None

Full Name	Complete Mailing Address

12. Tax Status (For completion by nonprofit organizations authorized to mail at nonprofit rates) (Check one)  
 The purpose, function, and nonprofit status of this organization and the exempt status for federal income tax purposes:  
 Has Not Changed During Preceding 12 Months  
 Has Changed During Preceding 12 Months (Publisher must submit explanation of change with this statement)

13. Publication Title		14. Issue Date for Circulation Data Below		
MICROSCOPY AND MICROANALYSIS		AUGUST 2020		
15. Extent and Nature of Circulation		Average No. Copies Each Issue During Preceding 12 Months	No. Copies of Single Issue Published Nearest to Filing Date	
a. Total Number of Copies ( <i>Net press run</i> )		1505	1336	
b. Paid Circulation ( <i>By Mail and Outside the Mail</i> )	(1)	Mailed Outside-County Paid Subscriptions Stated on PS Form 3541 (Include paid distribution above nominal rate, advertiser's proof copies, and exchange copies)	1101	1120
	(2)	Mailed In-County Paid Subscriptions Stated on PS Form 3541 ( <i>Include paid distribution above nominal rate, advertiser's proof copies, and exchange copies</i> )	0	0
	(3)	Paid Distribution Outside the Mails Including Sales Through Dealers and Carriers, Street Vendors, Counter Sales, and Other Paid Distribution Outside USPS®	182	194
	(4)	Paid Distribution by Other Classes of Mail Through the USPS (e.g., First-Class Mail®)	0	0
c. Total Paid Distribution [ <i>Sum of 15b (1), (2), (3), and (4)</i> ] ▶		1283	1314	
d. Free or Nominal Rate Distribution ( <i>By Mail and Outside the Mail</i> )	(1)	Free or Nominal Rate Outside-County Copies included on PS Form 3541	0	0
	(2)	Free or Nominal Rate In-County Copies Included on PS Form 3541	0	0
	(3)	Free or Nominal Rate Copies Mailed at Other Classes Through the USPS (e.g., First-Class Mail)	0	0
	(4)	Free or Nominal Rate Distribution Outside the Mail ( <i>Carriers or other means</i> )	1	0
e. Total Free or Nominal Rate Distribution ( <i>Sum of 15d (1), (2), (3) and (4)</i> )		1	0	
f. Total Distribution ( <i>Sum of 15c and 15e</i> ) ▶		1284	1314	
g. Copies not Distributed ( <i>See Instructions to Publishers #4 (page #3)</i> ) ▶		221	22	
h. Total ( <i>Sum of 15f and g</i> )		1505	1336	
i. Percent Paid ( <i>15c divided by 15f times 100</i> ) ▶		99.92%	100%	

\* If you are claiming electronic copies, go to line 16 on page 3. If you are not claiming electronic copies, skip to line 17 on page 3.



**Statement of Ownership, Management, and Circulation  
(All Periodicals Publications Except Requester Publications)**

16. Electronic Copy Circulation	Average No. Copies Each Issue During Preceding 12 Months	No. Copies of Single Issue Published Nearest to Filing Date
a. Paid Electronic Copies <span style="float: right;">▶</span>		
b. Total Paid Print Copies (Line 15c) + Paid Electronic Copies (Line 16a) <span style="float: right;">▶</span>		
c. Total Print Distribution (Line 15f) + Paid Electronic Copies (Line 16a) <span style="float: right;">▶</span>		
d. Percent Paid (Both Print & Electronic Copies) (16b divided by 16c × 100) <span style="float: right;">▶</span>		

I certify that 50% of all my distributed copies (electronic and print) are paid above a nominal price.

17. Publication of Statement of Ownership

If the publication is a general publication, publication of this statement is required. Will be printed  Publication not required.  
in the December (26.6) issue of this publication.

18. Signature and Title of Editor, Publisher, Business Manager, or Owner	Date
Nina Iammatteo	10/1/2020

I certify that all information furnished on this form is true and complete. I understand that anyone who furnishes false or misleading information on this form or who omits material or information requested on the form may be subject to criminal sanctions (including fines and imprisonment) and/or civil sanctions (including civil penalties).

# DiATOME Diamond Knives



## unsurpassed & unmatched...

Ultra-Wet 35° • Ultra-Dry 35°  
 Ultra-Semi 35° • Ultra Maxi 35°  
 Ultra Jumbo 35° • Ultra Sonic 35°  
 Ultra ATS 35° Ultra-AFM 35°  
 Ultra-Wet 45° • Ultra Jumbo 45°  
 Cryo 25° • Cryo Immuno 35°  
 Cryo-Dry 35° • Cryo-Wet 35°  
 Cryo-Dry 45° • Cryo-Wet 45° Cryo-AFM  
 Histo 45° • Histo Jumbo 45°  
 Histo-Cryo Dry 45° • Histo-Cryo Wet 45°  
 Trimtool 20 • Trimtool 45 • Static Line II



for more information, please  
 visit our website at...

[www.emsdiasum.com](http://www.emsdiasum.com)

## DiATOME U.S.

P.O. Box 550 • 1560 Industry Rd.  
 Hatfield, PA 19440  
**Tel:** (215) 412-8390  
**Fax:** (215) 412-8450  
**email:** [info@emsdiasum.com](mailto:info@emsdiasum.com)  
 or [stacie@ems-secure.com](mailto:stacie@ems-secure.com)

## Need a bigger boat?...

DiATOME is still innovating. We are  
 pleased to announce these latest  
 additions to our line...

### NEW ultra Maxi

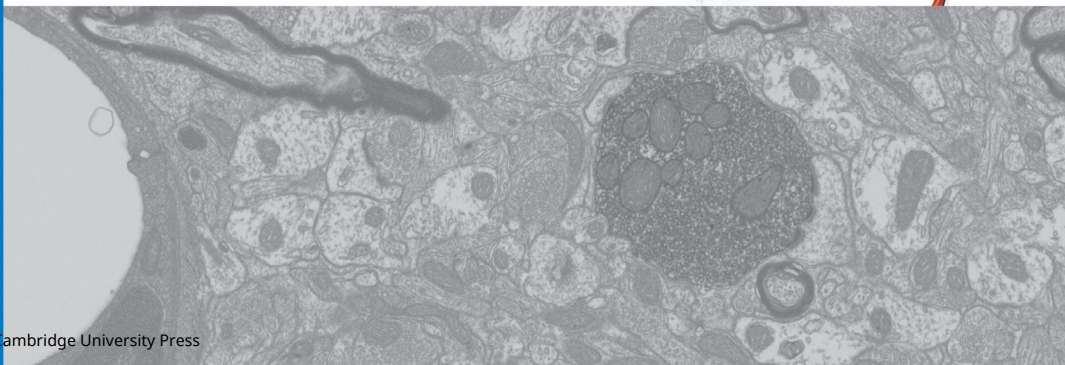
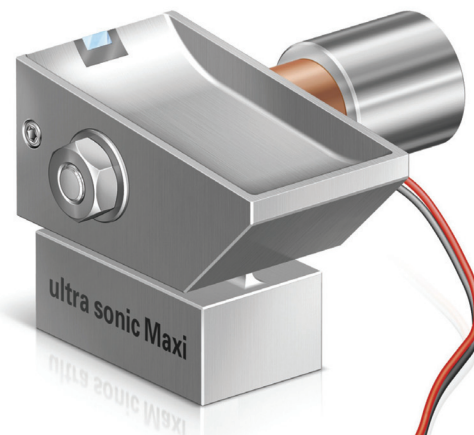
The ultra Maxi is similar to our ultra 35°  
 4.0 mm but with a larger boat.  
 Thickness range: 30-200nm



### NEW ultra sonic Maxi

The ultra sonic Maxi is a new wider  
 ultra sonic knife specifically for  
 compression-free serial sectioning  
 in biological applications. The knife  
 comes in 3.0mm and 4.0mm sizes  
 with 35° angle.

Biocytin-labeled giant bouton from the auditory cortex of a  
 Mongolian gerbil acquired with a scanning electron microscope.  
 Saldeitis et al., 2019 Eur. J. Neurosci. Vol.50-9:3445-3453.



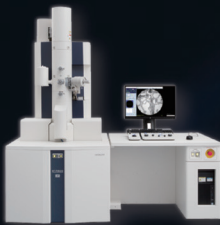
# Regulus Series UHR CFE-SEM

## Cold-Field Emission SEM At Its Finest

- Ultra-High Resolution and Analytical Efficiency up to 2Mx Magnification
- Extreme Low Voltage Performance
- Advanced Detection System, Beam Deceleration and More!



Request a virtual demo at  
[hta-microscopy@hitachi-hightech.com](mailto:hta-microscopy@hitachi-hightech.com)



HT7800 120 kV TEM

Redefine the boundaries of 120 kV TEM with modern technology



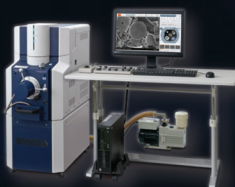
SU3800/3900 VP-SEM

Analyze large and heavy samples with ease using this revolutionary VP-SEM featuring IFT



SU7000 UHR Analytical FE/VP-SEM

Elevate research and analysis to the next level with this ultra-high-resolution Schottky SEM



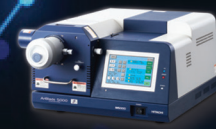
FlexSEM 1000 II VP-SEM

Full-sized SEM power in a small package with our new compact VP-SEM



AFM5300E Environmental SPM

Analysis from all angles with surface, structure, and even correlative EM



ArBlade 5000 Ion Milling System

Better sample preparation leads to better SEM images with our innovative ion milling systems

# Innovation ♦ Synergy ♦ Solutions



Science for a better tomorrow

Hitachi High-Tech America, Inc.

[www.hitachi-hightech.com/us](http://www.hitachi-hightech.com/us) Tel. 800-253-3053 E-mail: [hta-microscopy@hitachi-hightech.com](mailto:hta-microscopy@hitachi-hightech.com)