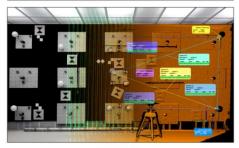
**Publications of the Coordinate Metrology** Society

## Journal of the CMSC

THE PUBLICATION FOR 3D MEASUREMENT TECHNOLOGY



IN THIS ISSUE:

NRCC Experiments for ASTM E57 Medium-Range Measurement Error Standards Developmen

Earth, Wind, and Fire: The Application of Photogrammetry for Challenging Large-Scale Metrology Projects by Giuseppe Ganci, Gancell Psy. Ltd.

Six-Point Method for Spatial Angle Measurement of a Hydraulic-Driven Underwater Manipulator
by Xi Zhang, Xu Zhang, Weiqing Chu, and Dinghao Feng,
School of Mechatronic Engineering and Automation, Shanghai University

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CMSC











Hardware vs. Software: The Knockout Round?



Several years back, I was asked this question: Does measurement Several years back, I was asked this question: Does measurement software have the ability to determine scale without the use of scale bars? On numerous occasions in a variety of ambient conditions, I have tested and compared the results of infitally setting up a system using temperature/material software compensation. Next, I would check the accuracy by measuring a NIST traceable scale bar (length adjusted for ambient temp). Most of the time, the results compared within 0.0005 in. 0.0015 in. So here is the million dollar question. Which one is truly correct? [full story]

# Quality Digest editor in chief Dirk Dusharme interviews Keith Bevan, Training Product Manager for NPL about the CMSC Measurement Zone



Structure-From-Motion Systems for Scene

by Shawn Recker, et al

Society Executive Executive Chairperson chairman@cmsc.org

Past Chair. Ron Hicks

## Publications of the Coordinate Metrology Society



#### JOURNAL OF THE CMSC

The *Journal of the CMSC* is published twice a year in the Fall and Spring by the Coordinate Metrology Society. Each issue devotes its pages to the finest white papers presented by industry experts at their annual Coordinate Metrology Systems Conference. Diverse applications of portable, three-dimensional measurement technology are represented in this well-read journal. The annual subscription fee for the publication is included in the membership dues of the Society. Circulation: 6,000 + readers plus bonus distribution.

#### **CMSC WORLD**

The Coordinate Metrology Society publishes their official eNewsletter *CMSC World* four times a year. This digital publication includes feature articles, case stories, industry news, commentaries, new products, videos, surveys, job placement listings, and more. *CMSC World* is "the place" to share insights and technical expertise with other CMSC colleagues! Members are urged to submit articles and news for consideration of publication. Submission guidelines can be found on Page 4. Circulation: 37,000+.

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## Publications of the Coordinate Metrology Society



#### Journal of the CMSC

#### **ADVERTISING OPPORTUNITIES**

The *Journal of the CMSC* is published twice a year in the Fall and Spring by the Coordinate Metrology Society. Each issue devotes its pages to the finest white papers presented by industry experts each year at the Coordinate Metrology Systems Conference. The annual subscription fee for the publication is included in the CMS membership dues. To place your advertising order, please complete the instructions on the **Advertising Insertion Order Form** on page 5. **Circulation\*\*: 6,000+ readers** 

\* Entire Coordinate Metrology Society Membership and Select Readers of Quality Digest Daily

#### **2015 PUBLICATION CALENDAR**

<u>Spring Issue: Date of Publication</u> <u>Ad Space Close</u> <u>Ad Materials Close</u> April 6, 2015 3/13/2015 3/20/2015

Fall Issue: Date of PublicationAd Space CloseAd Materials CloseSeptember 14, 20158/21/20158/28/2015

#### **ADVERTISING RATES**

†Inside Front Cover, 4 Color, Full Page: \$3,100.00 †Back Cover, 4 Color, Full Page: \$3,100.00 Inside Back Cover, 4 Color, Full Page: \$2,800.00

Full Page, 4 Color: \$2,400.00

Horizontal Half Page, 4 Color: \$1,500.00

†**Bonus**: Inside Front Cover and Back Cover advertisers receive a free e-blast to more than 20,000 *Quality Digest Daily* readers.

#### ADVERTISING SPECIFICATIONS

- 1. All art should be CMYK (4/C "process" color definition)
- 2. All images must be high resolution: 300 dpi minimum
- 3. Acceptable graphic file formats include: High-res PDF or TIF files.
- 4. Full page ads should be 8" x 10.75" (8.5" x 11.25" Bleed)
- 5. Half page horizontal ads should be 7" x 5". CMSC does not accept bleeds for ads smaller than full page.

**Bleeds:** Reading and "live" matter should be placed 1/4" from trim line on all sides. Full page ad print is 8" x 10.75". A full page ad with bleed should be constructed to 8.5" x 11.25" (this would leave all reading and "live" matter 1/2" from edge). The CMS does not accept 1) bleeds for ads smaller than full page, 2) half-page vertical ads, or 3) vertical island ads.

#### **DELIVERY OF ART WORK**

Instructions to deliver your artwork can be found on the Advertising Insertion Order Form on Page 5.

#### **CMS ADVERTISING REPRESENTATIVE**

To place your ad or for information, contact our CMS Advertising Representatives:

Primary Contact: Mike Richman, Tel (530) 893-4095 ext. 1003, Fax (530) 893-0395, Email: mrichman@qualitydigest.com Secondary Contact: Belinda Jones, Tel (860) 399-1147, Fax (860) 399-1148, Email: belinda.jones@hitechmarketing.com



### Publications of the Coordinate Metrology Society



#### CMSC World Digital Newsletter

#### **ADVERTISING OPPORTUNITIES**

CMSC World is the official digital newsletter of the Coordinate Metrology Society, and is published 4 times a year. Our online publication reaches over 37,000 metrology professionals and executives, and provides a summary of industry news, commentary, new products, case stories and updates in the metrology marketplace. To place your advertising order, please complete the instructions on the **Advertising Insertion Order Form** on page 6 of this document.

#### Circulation: 37,000+ readers

#### **2015 PUBLICATION CALENDAR**

Date of Publication	Editorial/Art Close	Ad Space Close	Ad Materials Close
February 12, 2015	1/30/2015	1/30/2015	2/6/2015
May 21, 2015	5/8/2015	5/8/2015	5/15/2015
August 13, 2015	7/31/2015	7/31/2015	8/15/2015
November 12, 2015	10/30/2015	10/30/2015	11/6/2015

#### **ADVERTISING RATES**

**Issue Sponsorship\*:** \$950.00 - Includes Featured Banner Ad (top of page), sponsorship text link, and a Button ad on each feature jump off page.

Featured Video: \$600.00 - includes Video on main page and all jump off pages

along with a companion banner ad.

Feature Banner Ad: \$500.00

#### **ADVERTISING SPECIFICATIONS**

AD UNIT	DIMENSIONS	MAX FILE SIZE
Sponsorship Banner Ad	728px X 90px	40 KB
Banner Ad	400px X 120px	30 KB
Video Companion Ad	468px X 60px	15 KB
Button Ad	180px X 180px	20 KB

#### **AD CREATION SERVICES**

Do you want to ADVERTISE, but don't have a BANNER AD? We can help! For an additional charge of \$150, we can help you design the perfect digital ad. For more information on this cost-effective service, please email Mike Richman at mrichman@qualitydigest.com or call (530) 893-4095 ext. 1003.

#### **DELIVERY OF ART WORK**

Instructions to use our FTP Site can be found on the Advertising Insertion Order Form on Page 6.

#### **CMS ADVERTISING REPRESENTATIVE**

To place your ad or for information, contact our CMS Advertising Representatives:

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<sup>\*</sup> Coordinate Metrology Society Membership and Quality Digest Daily Readers

### Publications of the Coordinate Metrology Society



#### Content Guidelines For CMSC World

Your Submissions are Welcome!

CMSC World is "the place" to share your insight and technical expertise with other CMS members and metrologists! We are looking for experts and experienced authors to write articles that provide specific and useful information to help members become more successful in their use of metrology technology. We urge you to submit articles for consideration of publication, as well as case stories, commentaries, press releases, new product announcements, news briefs and more.

#### How to Submit Articles for Consideration

Please follow the guidelines below, and submit articles for consideration of publication to <a href="mailto:publications@cmsc.org">publications@cmsc.org</a>. Please include your full name, email address, postal mailing address, and daytime phone number with each article submission. Submit your articles in plain ASCII text, Rich Text Format (RTF), or Microsoft Word (most preferred).

Ideally, articles for CMSC World should be limited to a specific word count, as covered below:

- \* Feature articles (1,500 words) should cover technology, applications, implementations
- \* On the Case Case stories (1,500 words) or studies describing successes and pitfalls of actual projects

When writing an article, consider the following questions:

- \* How will readers benefit from reading your article?
- \* Will they learn a new technique?
- \* Will they work more effectively if they implement your suggestions?
- \* Will they embrace a new product more successfully based on your implementation plan?
- \* What do you know now that you wish you knew before you started your project?

In short, articles should give readers the inside track on how to use metrology technology more effectively. You should strive to include rules-of-thumb or guidelines for readers whenever possible, including pointing out obstacles that might be encountered and offer workarounds.

#### Submit News - Commentaries, Press Releases, New Product Announcements, News Briefs

Other news items should also be limited to a specific word count, as described below.

- \* Press releases and photos (prefer under 1,000 words)
- \* New product announcements and photos (prefer under 1,000 words)
- \* News briefs (200 words maximum)

Submit news for consideration of publication to publications@cmsc.org.

#### Thinking about Writing an Article? Submit an Abstract First!

If you are thinking about writing an article for CMSC, we highly recommend that you send an abstract for your proposed article. Submit your abstracts via e-mail to <a href="mailto:publications@cmsc.org">publications@cmsc.org</a>. An abstract should address the following questions:

- \* What is the business problem/situation?
- \* What is the current or old technology solution?
- \* What is the new and/or better metrology technology solution?
- \* How does the new technology solution exceed the current or old solution?
- \* Is there quantitative data such as time savings, ROI, or higher productivity resulting from the use of this technology?

**Coordinate Metrology Society** 

## **Publications of the Coordinate Metrology Society**



#### Journal of the CMSC - 2015 ADVERTISING INSERTION ORDER FORM

Please complete this form and fax to 530-893-0395. Online payment instructions are also listed below.

ADVERTISER	PR AGENCY REPRESENTATIVE		
Company Name	Company Name		
Address	Address		
City/State/Zip	City/State/Zip		
Contact Person	Contact Person		
Title/Phone/FAX	Title/Phone/FAX		
Web Address	Web Address		
Email Address	Email Address		
DISPLAY ADVERTISING	PAYMENT - Payment can be completed online at the CMS0		
1) Date of Publication: (check one please)	Website www.CMSC.org using these steps:		
☐ Spring 2015 Journal of the CMSC☐ Fall 2015 Journal of the CMSC	Select ANNUAL CONFERENCE from the main menu.     Choose REGISTER, then enter your email address. Next		
2) Type of Ad	under <b>Registration Type</b> , select <b>Exhibitor</b> On the line direct below the Registration Type box, there is a note stating if you		
<ul> <li>☐ Inside Front Cover, 4 Color, Full Page*</li> <li>☐ Inside Back Cover, 4 Color, Full Page*</li> <li>☐ Back Cover, 4 Color, Full Page*</li> <li>☐ Full Page, 4 Color</li> <li>☐ Horizontal Half Page, 4 Color</li> </ul>	wish to be a sponsor, but are not going to attend the conference, please click here. Cursor select please click here to proceed to the <b>Advertising Opportunities</b> page.  3. Select the items you wish to purchase for advertising. Whe finished, click <b>continue</b> at the bottom of the page. <i>Notes: A</i>		
*Premium Positions are first come, first served. No position shall be considered reserved without a signed insertion order.	rectangular box next to an item requires a number to be typed in the field. A small square box next to an item designates there is only one its kind for purchase. When an item has been purchased to its set lir		
3) Space Charge Color Charge - WAIVED	it will not appear on the page, nor will be available for purchase.  4. Review your <b>Order Summary</b> and click <b>continue</b> at the		
4) Total Cost	bottom of the page. 5. Fill out your <b>Contact Information</b> in the left hand column.		
DELIVERY OF MATERIALS	6. Please fill out the <b>Billing Information</b> only if it is different from your Contact Information. Click <b>submit</b> at the bottom of		
1) EMAIL: Graphic files under 15 MB can be emailed to belinda.jones@hitechmarketing.com.	the page. 7. On the <b>Confirmation</b> page, please review and print the		
2) MAIL: Burn a CD/DVD and send to: Quality Digest   P.O. Box 1769   Chico, CA 95927-1769 3) FTP SITE: Graphic files can be uploaded via FTP.	information and itemized invoice. To complete the transaction you must click the red <u>Done</u> link at the bottom of the page. You will receive an automated email confirmation of your purchase		
How to Use the FTP Site: Please use a direct FTP Utility like WSFTP(PC) or Fetch(MAC) and use the following information:	ADVERTISER AUTHORIZATION		
Host: ftp.hitechmarketing.com     Username: htmguest     Password: Petre3	Signature Date		
Please place ad file into the "CMSCAdvertising" folder.	Name/Title		

FAX Ad Insertion Orders to: 530-893-0395

• Password: petre3

Please place ad file into the "CMSCAdvertising" folder

## Publications of the Coordinate Metrology Society



#### CMSC World eNewsletter - 2015 ADVERTISING INSERTION ORDER FORM

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ADVERTISER	PR AGENCY REPRESENTA	TIVE	
Company Name	Company Name		
Address	Address		
City/State/Zip	City/State/Zip		
Contact Person	Contact Person		
Title/Phone/FAX	Title/Phone/FAX		
Web Address	Web Address		
Email Address	Email Address		
DISPLAY ADVERTISING	PAYMENT - Payment can be converged www.CMSC.org using the	•	
1) Date of Publication: (check one please)  ☐ February 12, 2015  ☐ May 21, 2015  ☐ August 13, 2015  ☐ November 12, 2015	<ol> <li>Select ANNUAL CONFERENCE from the main menu.</li> <li>Choose REGISTER, then enter your email address. Next under Registration Type, select Exhibitor. On the line directly below the Registration Type box, there is a note stating if you wish to be a sponsor, but are not going to attend the</li> </ol>		
2) Type of Ad(Sponsorship, Banner, Video & Companion Ad)	conference, please click here. Cu proceed to the Advertising Oppo 3. Select the items you wish to pu	ortunities page. urchase for advertising. When	
	finished, click <b>continue</b> at the bo		
3) Space Charge Color Charge - WAIVED	rectangular box next to an item requires a number to be typed in the field. A small square box next to an item designates there is only one of its kind for purchase. When an item has been purchased to its set limit,		
4) Ad Creation Charge	it will not appear on the page, nor wil 4. Review your <b>Order Summary</b>		
5) Total Cost	bottom of the page.  5. Fill out your <b>Contact Information</b> in the left hand column.  6. Please fill out the <b>Billing Information</b> only if it is different from your Contact Information. Click <b>submit</b> at the bottom of		
DELIVERY OF MATERIALS	the page.	lick <b>submit</b> at the bottom of	
1) Graphic files under 14 MB can be emailed to belinda.jones@hitechmarketing.com.	7. On the <b>Confirmation</b> page, please review and print the information and itemized invoice. To complete the transaction, you must click the red <b>Done</b> link at the bottom of the page. You		
2) Graphic files over 14 MB can be sent via FTP.	will receive an automated email of		
How to Use the FTP Site: Please use a direct FTP Utility like WSFTP(PC) or	ADVERTISER AUTHORIZAT	TION	
Fetch(MAC) and use the following information:  • Host: ftp.hitechmarketing.com	Signature	Date	
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