

American Society for Quality Control

P.O. BOX 444, POINTE CLAIRE - DORVAL H9R 4P3

NEMBUECCER

MONTREAL SECTION

APRIL 1987

OFFICERS - 1986 - 1987

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NOTICE OF MONTHLY MEETING

Spar Aerospace Limited

P.O. Box 13050 Kanata, Ontario K2K 1X3



DAVID FLORIDA LABORATORIES (OTTAWA)

This month, we will visit the David Florida Laboratories, part of the Canadian Defence Research Establishment Our hosts will be SPAR AEROSPACE.

DATE:

29 April 1987

TIME:

7:00 PM

PLACE:

DEFENCE RESEARCH ESTABLISHMENT David Florida Laboratories

Ottawa, Ontario

DIRECTIONS: See the map on the reverse side.

COMMITEE CHAIRMEN

MEMBERSHIP

George G Andrews Canadian Marconi Company Ouality Assurance 2442 Trenton Town of Mount Royal. Que H3P 1Y9 (514) 341-7630 (4629)

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RELATIONS & Q P CORRESPONDENT

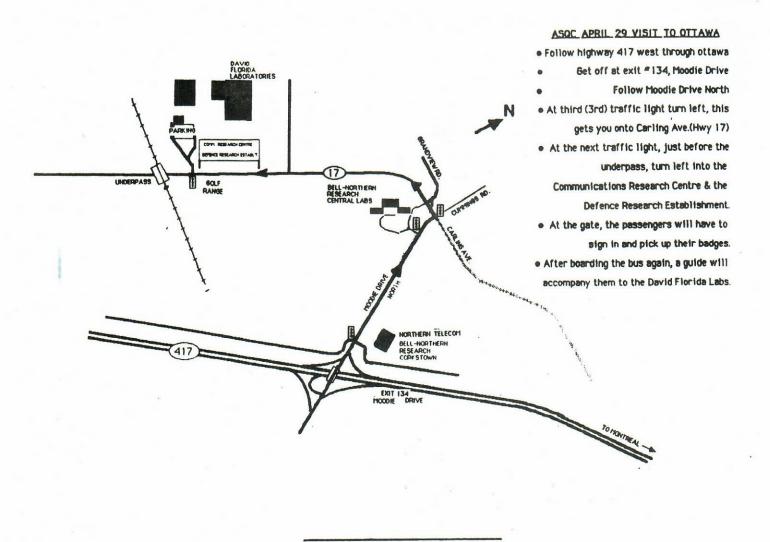
Montreal members may hop on the ASQC bus at the main entrance of CANADAIR Ltee, on the corner of Poirier and Laurentian Blvd. Members ride free, guests will pay \$5. BUS LEAVES at 5:00 PM.

Please confirm your presence with Ms GIBBS at (514)340-3132. Seats are limited.

Denis M. Martin P. Chem Gilette Canada Inc 5450 Cote De Liesse Montreal. Oue H4P 1A7 (514) 340-2800 (2286)

SECTION MANAGEMENT AWARD

Len Barth, Eng. Quality Management Consulting 110 Grassmere Ave. Pointe Claire, Que. MAR 2748



A bit of a background:

The David Florida Laboratories (DFL) are owned and operated by government personnel, and rented out to private industry for their use

Spar Aerospace Limited, your sponsor for the evening, has a full-time staff in residence, to integrate and test a large number of their space hardware, such as communication satellites, solar panels, remote manipulators etc.

Hopefully, at the time of the visit, there may be some hardware to see, such as the Olympus solar-panel simulation, and a full-scale model of the satellite Spar built and developed for Brazil.

Of interest are the huge thermo-vacuum chamber, the enormous shake-table, and the largest wide-spectrum anechoic chamber in Canada, the state-of-the-art mass properties equipment, and the infra-red solar simulation technology developed by Spar.

It should be an evening of interest for all. Hope to see you there.

regards, .

A.T. Don

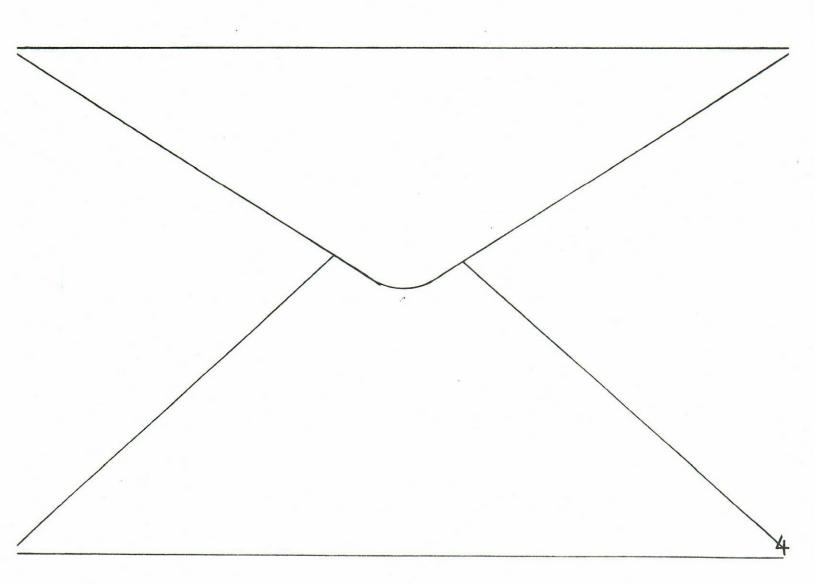
Ottawa sub section coord

YOUR OPINION Well it's the time of year again retro and intro-spec. We are look continue and expand our work as we you want to join us, just give Charles 243. Don't forget we want to sta	ell as	bring in new ideas. If
In the meantime, here is a bit of the small questionnaire below and what YOU want in YOUR Newsletter.	work f	or you. PLease fill-in
 What type of news do you want t a) General technical 	YES	in the Newsletter? NO _
b) General scientific	1_1	I
c) Quality	1_1	I
d) Other ASQC Sections	1_1	III
e) Courses	1_1	ΙΞΙ
f) Job opportunities	1=1	I_I
2. How do you feel that the Newsle	tter sl	nould cover these items?
a) General technical	MORE 	LESS
b) General scientific		i=i
c) Quality	i_i	1 <u>-</u> 1
d) Other ASQC Sections		'-' -
e) Courses	1=1	
f) Job opportunities	'_' _	
o, oth opportunitors	'-'	1_1
3. How satisfied are you with the	present	Newsletter?
NOT $\frac{1}{2}$ $\frac{2}{2}$ $\frac{3}{2}$ $\frac{4}{2}$	<u>5</u>	VERY SATISFIED
4. What changes would you like to	see in	the Newsletter?

Thank-you for your participation. Just fold and mail to us.

Please put a 36 ¢ stamp

CANADIAN MARCONI COMPANY C/O JP AMIEL BOX 94 2442 TRENTON AVE MONTREAL H3P 1Y9





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American Society for Quality Control

P.O. BOX 444, POINTE CLAIRE - DORVAL H9R 4P3

NEW MEMBERS' CORNER



We wish to welcome the following new members to the Montreal

QC Director WOODRIDGE FOAM Corp St Jérome, Québec Alain BRAULT

Bridgewater, Nova Scotia

Pointe Claire, Québec

QA Technologist CIRCOCRAFT

Jack PASTUSZKO

QA Coordinator MICHELIN TIRES CANADA

David DOLE

New Minas, Nova Scotia Production Manager MICHELIN TIRES CANADA Frederik HARVIE

COMPAGNIE ELEC PIONEER DU PQ André PATENAUDE Granby, Québec QA Manager

Transfer:

Montreal, Québec Richard BAYLIS SPAR AEROSPACE Manager QA

LETTERS TO THE EDITOR:

C/O CANADIAN MARCONI COMPANY Ex 4845 2442 Trenton Ave o Send all your letters and articles to: JP AMIEL, BOX 94 MONTREAL H3P 1Y9 514-341-7630 ------

EXECUTIVE COMMITTEE MEETINGS

The executive committee meetings are open to all members and are held usually once a month, to discuss the upcoming activities, 3246, for To attend a meeting, contact the Secretary, Debbie Deslauriers, at 744-1511 ext. details of the upcoming meeting. new ideas and programs.

QUALITY SAMPLES

B-1B bomber feels big chill during environmental tests in Florida

in the McKinley Climatic Laboratory, Eglin AFB, where it is undergoing 18 weeks of intense ▲ THE B-1B, the USA's new strategic penetrating bomber, gets a touch of 'Florida's arctic. environmental testing

Tests are being conducted to evaluate the aircraft's ability to function in the full spectrum Each of the aircraft's 15 major systems is being subjected to three weeks of extreme cold [-65°F]; two weeks of icing, blowing snow and rain (76 mm/hour); three weeks of neat of environmental extremes and operating conditions to be encountered around the world.

(165°F) and two weeks of high humidity. To date, 14 B-18s have been delivered to the air force. Eleven are now operational at Dyess AFB, Texas

O AIR FORCE BOASTS HIGH ELECTRONIC RELIABILITY

Six hundred years ago, during the Ming Dynasty, the chinese built the Nanjing city wall to repel invading armies. The names of the bricklayers were inscribed on every brick laid in the main fortress area. If it later crumbled or bricks were found to be placed improperly, the responsible people were executed. The quality control procedure seemed to work; today the wall is remarkably intact. This is the story told by Gen. Lawrence A Skantze, commander of the Air Force Systems Command, to illustrate the importance of quality in Air Force weapons sytems. Skantze has not yet advocated such a quality control procedure for microwave engineers, perhaps because he is generally pleased with the trends towards high reliability in electronic systems used by the Air Force's operational aircraft.

malfunctions per flying hour as the older F-4 radar. Their radios also offer a good point of contrast. With the newer F-16 electronics, the radio not only breaks less often, but when it does, one person can replace it in five minutes, compared to three technicians in one hour required for a He provides an example in the F-15 radar. It has half the comparable task on older F-4s.

MILITARY

says Bill Kritzler, the GE engineer who

FACE SWEEPING OVERHAUL **MILITARY CHIP STANDARDS**

he Pentagon is very quietly prepar-ing to overhaul completely its qualithem with a generally applicable set of fication standards and procedures for procuring microcircuits and to replace Operating with funding from the generic qualifications and procedures.

Very High Speed Integrated Circuits program, the Rome Air Development Center, an Air Force installation in Rome, N. Y., signed a \$5.24 million contract with General Electric, AT&T, and Honeywell last month to draft new standards and procedures. Design, fabrication, and test phases will all be affected

that

midity, and specifies test methods.

ble" with application-specific integrated chips, says Maj. Rudolf Konegen, direccrocircuit qualification procedures and standards to make them more compati-The contractors will "revise our mi-

tee that a given device will perform on the battlefield. "The old visual inspec-tions at 100 × or 200 × are worthless. Some methods will not apply to VHSIC."

managed the contract proposal for the the program. In addition, Kritzler says eliminating The targets of these revisions are specifications prescribed by three standards. MILM-38510 is a general set of specifications, MILSTD-976 covers pro-"We're embarking on a program to a program to make the Joint Army-Navy procedures generic in the sense of process, test, and production."

lead to shorter delivery cycles, lower-cost parts, and higher reliability. "The objective of the program is to tailor Mil time" by emphasizing procedural stan-dards where parts are designed, rather qualification testing, in which as many as 200 parts might be destroyed, could world, to provide levices more cheaply and in a shorter than where they are fabricated, he says. SOFTWARE MODELING. The program aims to use high-level software simulation and modeling in the qualification process so parts can be proven prior to manufacture. "With VHSIC, you don't get 140 parts to destroy during testing," Kritzler says. "Your lifetime order may Specs to the VHSIC tion facilities; and MIL-STD-883 requires These standard procedures are timecedures and standards for chip-fabricamental conditions, such as heat and huconsuming, expensive, and, some say, not necessarily the best way to guaranparts withstand certain environ-

A revised set of standards is due in September 1988, and within six months at least three VHSIC-class fabrication ines will be operating under the amend--Tobias Naegele only be about 140 parts.' ed procedures.

QUALITY SAMPLES

coffee mug-that's what! And, what would you name such Beginning March 31, what will you receive when you recruit a new member to ASQC? A very special ASQC membership recruitment drive? What else! The Mug-A-Member Campaign.

B

Every member of ASQC who recruits a new member before June 30, 1987 will receive a specially designed ceramic coffee mug in recognition of his/her efforts.

that has had such great success in other associations that we for recruitment campaigns. We feel this campaign will be an interesting way to potentially increase our recently plateaued reported by one association were twice the national average decided to adapt the theme for ASQC. In fact, the results It's a fun, light-hearted approach to recruiting members membership level.

with special brochures. All membership renewal mailings for The Mug-A-Member Campaign will begin March 31, 1987 and continue through June 30, 1987. To help promote the campaign, each section chair, regional and deputy director will receive a sample ASQC Mug-A-Member mug along 1987-88 will also include a Mug-A-Member brochure.

than ever to recruit new members and need to do to sign up a new member is to During this special offer, it will be easier fill in the coupon included in the Mug-Areceive your campaign mug! All you will Member brochure.

ferred division affiliation. The new members (Mugees) can use their credit cards or give The coupon asks only for name, one address, category of membership, and prebership fee. The entire procedure goes like their Muggers a check for the total mem-

1. Fill out membership coupon.

2. Attach membership fee (or credit card number) from new member as calculated on membership coupon.

4. Muggers (recruiters) must include their 3. Mail coupon and fee to ASQC.

names and member numbers at the bottom of the coupon. Specially designed ASQC

clusion of this offer, July 1, 1987, based on mug(s) will be sent to recruiters at the conaddress information in the recruiter's membership file.

5. There is no limit to the number of mugs Member recruitment totals will be applied 6. DOUBLE BONUS!!! The Mug-Ato the ASQC Personal Touch Program. you can receive (six makes a nice set).

business and graduate school heads.

Quality Review?

Special Bonus for New Members

ditional benefits prior to July 1, 1987 (at which time their membership year officially begins). Membership applications will be lers. Remember, it is not necessary to fill out a customary application form for this Mug early! New members will receive adprocessed upon arrival at ASQC headquarspecial recruitment campaign.

It really couldn't be easier! So, get out there and start mugging!

Advanced liquid filling system NEW YORK, N.Y.—Adtech, Inc. has developed a significant departure in check-weigh liquid filling systems—a computer-controlled, electronically selfcorrecting multiple-head liquid filling

1987.

other selected ASQC officials.

A computer provides filling within an extremely accurate 100-microsecond time base, continuous self-correction, online computerized check-weighing for

reliability and statistical reports.

The computer automatically tracks each container, compares weight before and after filling and automatically corrects the filling heads to stay within limits.

The system can be used with any liquid, ranging from isopropyl alcohol to highly viscous materials. High system accuracy is essential where critical dosages are required, as with toxic materials, pharmaceuticals and diagnostic test liquids.

How can someone submit an article

A. AT&T, General Motors, American Express, and Corning

Glass Works will each be the sole advertiser for one of our

Q. Who will receive it?

first four issues.

A. Premier issue, March 16, 1987; summer issue, May 15;

Q. When will it be available?

innual reports.

all issue, September 1; winter issue, December 1.

Q. Who is sponsoring the magazine?

A. 32 pages, plus cover. It will look like many corporate

A. It is ASQC's new publication for senior executives in

Q. What is The Quality Review?

ousiness, industry, government, and the media.

Q. How big is it?

ity improvement. This is your unique opportunity to tell decision makers in busble spaced on plain white paper. Mail along to: Editors, The Quality Review, 253 W. 73rd, #2C, New York, NY 10023. Entries should be postmarked no later than June 1, Currently, the magazine is seeking two sector what you think should be done to en- A. All articles for the magazine are commissioned by the editors. Story ideas may Any ASQC member is invited to submit entries on any topic related to quality or qualiness, labor, government, and the private hance quality, productivity, profitability, tween 800 and 850 words and typed doube submitted to the editors, but only those provocative commentaries for publication. and competitiveness. Entries must be bewith your (the author's) name, title, address, member number, and telephone number, that are accepted will be acknowledged. for publication in The Quality Review? of charge to 50,000 individuals, including: companies in the United States; the chairmen and CEOs of the top 500 internationproximately 3,000 people); members of writers, ad agency heads, labor unions, and A. The magazine will be distributed free the chairmen, CEOs, chief financial officers, and vice presidents of marketing, human resources, and corporate affairs of the top 1,000 service and the top 1,000 industrial al companies; financial analysts and senior cities; radio and TV stations; plus business directors, board members and sustaining executives in the federal government (ap-Congress; governors and top state officials; mayors and senior officials in the top 100 Q. Will ASQC members receive The A. Basically, no. It will be given to secmember representatives of the Society, and tion chairmen, division officers, regional

HISTORY BOOK

I had the coportunity to read Len BARTH's work on the upcoming HISTORY OF THE MONTREAL SECTION. Len is our section's historian. It is a lot of work and he is doing a good job. So far, Len has managed to record events from 1949 to 1974. Almost there Len, don't give up.

For the benefit of all of you, I have put together a brief summary of some of the highlights of our section's history.

- o The Montreal Section was formed in 1949 by a group of people in local Quality Control Societies. Their leaders, Ben LLOYD (LEETHAM SIMPSON Ltd), Bruce LEADBETTER (BELL TELEPHONE Co), Roger LESSARD (ECOLE POLYTECHNIQUE) and John PRINGLE (BELL TELEPHONE Co) decided to join the American Society for Quality Control (itself created in 1946). This was finalized the following year (1950) and Montreal became the 43rd section of the Society.
- o The first evening course, sponsored by the Section, was started in 1951. It was called "Quality Control by Statistical Methods" and was offered at the École Polytechnique.
- o In 1956, the ASQC Annual Technical Conference was held in Montreal, the first time ever outside the US, at the Montreal Convention Centre on Berri St. It was deemed a resounding success.
- o The first All-Day Forum of the Montreal Section occurred in October 1957 at the Sheraton Mt Royal Hotel. Admission was \$10 for members and \$12 for non-members. Over 200 guests attended the program of 5 speakers, a panel discussion on starting a QC Program and a film on Modern Quality Control. The guest speaker was Peter WILSON of CANADIAN NATIONAL. Quoting Len "..this event effectively put Montreal on the map, quality-wise that is."
- o In 1958, the Montreal Section took the first steps to starting sub-sections in the Ottawa and then the Brockville-Kingston areas.

That year was also the one in which the Section won the SADDORIS AWARD under the chairmanship of Claude TAYLOR of then TRANS-CANADA AIRLINES. At that time the ASQC numbered 110 sections. The award was presented to the section in 1959 at the National Convention in Cleveland, Ohio.

That year, 1959, the Montreal Section won second place in the Saddoris competition.

- o By 1960, the curriculum of sponsored courses in Quality had been incereased to four; a Basic Appreciation Course, two Elementary Courses (Parts I and II) and an Advanced Course.
- o Due to the lack of member's interests in the Ottawa and Brockville-Kingston sub-sections, the Executive Committee of 1961 decided "..to drop the subject."

Meanwhile four members of the Section participated in the Canadian Standard Association's "Sampling Meetings" held in Toronto. This was later to become the CSA Special Publication Z90-1967, Sampling Procedure.

- o Throughout these years membership increased from 60 in 1952, to 252 in 1966.
- o In 1972, after negotiations with ASQC Headquarters, 37 members of the Montreal Section, rallied for the establishment of "La Section Québécoise à Montréal de l'ASQC", under the chairmanship of Denys PILON. This was approved by ASQC in 1974.

As for the years 1975 to 1987, we shall have to wait for Len to complete his book. When I joined the Society in 1970, Len was teaching Quality Control at CEGEP Vanier. Obviously, with the establishment of the Certificate Programs at Concordia University, and later at the École de Technologie Supérieure, a number of other All-Day Forums and other activities, there are still many things to say about our Montreal Section.

Chinese Delegation Visits ASQC

From January 11 through 14, ASQC hosted a delegation from the Republic of China. The six-member group, which was touring the U.S. and Canada to learn about training for quality control personnel, included representatives of China's State Economic Commission and educational ministries.

On January 11 and 12, the delegation was in Chicago, where they were hosted by Region 12 Director Mae-Goodwin Tarver. On January 13 and 14, the delegation visited Milwaukee, where they were hosted by ASQC headquarters staff. During their two days at headquarters, the Chinese visitors met with Mike Thiel, acting executive director, Paul Borawski, director of programs, Debra Owens, manager of special projects, and Steve Gordy, manager of professional development. Highlights of the Milwaukee visit included a dinner at the home of an ASQC member, a plant tour of the Allen-Bradley Company, and an educator's panel convened by the University of Wisconsin-Milwaukee.

This international exchange, arranged by H. James Harrington, chairman of the board of ASQC and a senior quality official at IBM Corp., was a follow-up to a top management seminar on quality control that Harrington and others conducted last September in Wuxi, China.

Sound waves detect concrete flaws

GAITHERSBURG, Md.—A nondestructive method to detect flaws in concrete known as "impact-echo" works similar to sonar used to locate submarines. An impact on the concrete generates sound waves that are reflected by concrete flaws. The reflected sound is picked up by a receiver mounted on the surface of the concrete, locating the flaws. The technique can be used in either plain of reinforced concrete.

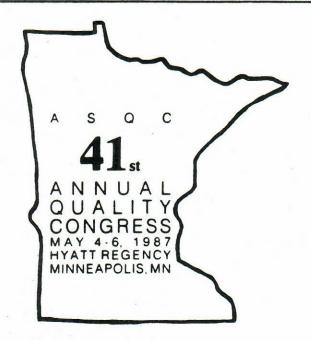
"There is a need for a reliable, easy-to-operate nondestructive concrete flaw detection system. We think the impact-echo method can fill this need," says Dr. H.S. Lew, head of structural evaluation at the National Bureau of Standards (NBS).

Impact-echo has been used successfully in a field study but, for general use, a more rugged transducer that can be easily coupled to horizontal or vertical surfaces needs to be developed, according to NBS.

o We are looking for companies to sponsor the publishing of the Newsletter. Wel'l be glad to PROMINENTLY state the fact that you or your company has sponsored the Newsletter.

ADS, YOU SAY ? ?

Yes, we will publish ads in our Newsletter. Contact our PUBLICITY man, David Tozer at 695-2028.



41st Annual Quality Congress

The Minnesota Section Host Committee is personally inviting you to attend the 41st AQC. The Congress will be held May 4-6, 1987 at the Hyatt Regency Hotel in downtown Minneapolis. Registration costs are the same as the 40th AQC. Again a fine slate of speakers and plant tours are on the program. Please refer to the December issue of Quality Progress for complete program and registration information. Additional copies are available from ASQC Headquarters. Request one for your boss, suppliers or other colleagues by calling ASQC at (414) 272-8575. Plan now to attend the Congress and visit our beautiful city.



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