

Radio
Advisory
Board

RABC Newsletter

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Special Points of Interest

- Dues to rise by 3% says Pres. Ron Coles
- WRC-2000 clears the way for IMT-2000
- FWCC considers Wireless IP
- RABC responds to DGTP-005-2000

Message From Our President

As many will know, the Board's Executive Committee has been doing some long range strategic planning. We have concerned ourselves, over the past few meetings, with: validating our mission, confirming how we want to operate, considering membership, and examining the budget.

We confirmed that we wish to continue to fill a unique and important 'niche' in the broad radio/telecom family: ***we want to continue to provide the Government of Canada with the best and most broadly based advice on matters regarding the management and use of the radio frequency spectrum.***

We want to operate on a sound, modern, professional, business-like basis. All of which says that we are not going to cut corners for short-term economies but we are, equally, not going to perpetuate money-losing activities just because 'we've always done it that way.' Our *new* format AGM which will be held late in the afternoon of Tuesday,



Ron Coles: CWTA/DMC Microwave
President of the RABC

2000-11-28 is a good example of that. It will deal, only, with the 'business' of the Board: the constitution, budgetary matters, election of officers, etc. We will invite our Industry Canada colleagues to help us provide detailed year-in-review reports and forecasts for the next year through: electronic media and detailed briefings to technical committees. This year the AGM will end just as the **Spectrum**

20/20 2000 Registration Reception begins. Next year it may well be in Toronto, where many sponsor member representatives are.

Finances matter. We went for many years with substantial government support, a large membership base, good income from Spectrum 20/20, etc.

In the '90s we saw our government grant decline, we lost several members (like almost all associations), Spectrum 20/20 costs went up and up, and so on. Dues remained steady for many years in the '90s.

The Executive has examined many financial options and has concluded that it is now necessary to allow dues to rise, steadily, to take account of inflation and to help bolster our financial reserves. We anticipate recommending a 3% increase in dues for the next FY and forecasting similar increases for several years to come. We believe the costs of the Board is low and the value of the RABC is high; we hope you share that view.

FWC Committee Considers Wireless IP

Subcommittee C (**Remi Chayer**- CWTA/Harris) of the Board's Fixed Wireless Communications Committee considered Wireless IP at a special meeting on 2000-06-20 at **Nortel Networks** in Brampton. The SC noted briefings from Industry Canada (**B.A. Brown** of DGSE) and CRC (**Luc Boucher**). The SC notes that the term *Wireless IP*, per se, is really a misnomer

when one considers the layers of the OSI model but that does not alter the fact that wireless access to the Internet is coming, quickly.

The SC agreed that one key problem is that most of the players are not at the table.

The SC concluded that wireless IP does not impact the fixed

wireless spectrum planning process, given that it is currently not an OSI physical layer issue for fixed wireless systems. Nevertheless, the SC will continue to monitor technical developments in what is clearly an emerging

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WRC-2000 Debriefs: IMT-2000

The meetings of the M&PC Committee— at **Rogers Wireless** in Toronto, and of the FWC Committee—at **Nortel Networks** in Brampton, in June took note of several briefings on WRC-2000.

Doug Sward of Industry Canada led the briefing team but he was supported by **Serge Bertuzzo (Cleartnet Inc.)**, **Paul Rayment (CWTA/Nortel Networks)** and **Bill Taylor (BTG/Bell Canada)** all of whom were members of the Canadian delegation in Istanbul.

The key issues are WRC-2000 were:

■ Additional spectrum for IMT-2000

■ Additional spectrum for high density fixed service applications above 30 GHz

■ Additional spectrum for the mobile-satellite service below and above 1 GHz

■ Bandsharing between Non-GSO and GSO satellite systems and terrestrial systems at Ku- and Ka-bands (11/14 GHz and 19/29 GHz)

■ Regulatory action to accommodate FSS earth stations on board seagoing vessels at C-band (6/4 GHz)

■ Replanning of all spectrum allocations above 71 GHz

■ Broadcasting-satellite plan for ITU Regions 1 and 3 (Europe, Africa, Asia and Australia)



Doug Sward briefs the M&PC Committee on WRC -2000

■ Provisions for a new global positioning satellite system initiative by Europe (to compete with US GPS and Russian GLONASS)

For IMT-2000

■ Additional spectrum for third-generation International Mobile Telecommunications (IMT-2000) was agreed

● effectively giving the green light to the mobile industry worldwide to deploy 3G networks and services

■ Decision provides for three new common bands (beyond WARC-92 bands at 1885-2025 MHz and 2110-2200 MHz)

● 806-960 MHz, 1710-1855 MHz, 2500-2690 MHz

● available on a global basis for countries wishing to implement the terrestrial component of IMT-2000

● agreement provides for a high degree of flexibility to allow operators to evolve towards IMT-2000 according to market and other national considerations

● makes use of existing mobile and mobile-satellite frequency allocations

» does not preclude the use of these bands for other types of applications or by other services to which these bands are allocated

» a key factor that enabled conference consensus to be reached

» consequential sharing/implementation studies to be addressed by ITU-R WP8F

Meet Kathy Ha Hau—Industry Canada

Kathy Ha Hau received a B. A. Sc. degree in Electrical Engineering from University of Waterloo in 1998

Ms. Ha Hau held various positions at a number of companies including Xerox Canada, Ontario Ministry of Transportation, Royal Bank of Canada and Bell Mobility. She joined Industry Canada in 1998, in the Space Engineering branch and, currently, she is an Engineer in Terres-

trial Engineering in DGSE.

Kathy Ha Hau is a keen athlete— she works hard at 300 Slater Street and then plays hard at badminton, cycling, swimming, and skiing in her free time.

She is an active participant in the work of the Mobile & Personal Communications Committee.



Kathy Ha Hau of Industry Canada

Meet EMC Committee Chair: P.F. Ng



P.F. Ng—Rogers Wireless

P.F. Ng – Born with a 4-letter callsign?

Many of you may not know who is Put Fan Ng. He is more known as P.F. to his colleagues and friends. P.F. has been participating in RABC activities for over ten years representing Rogers Wireless Inc. (formerly called Rogers Cantel). He has been a regular member to the M&PC Committee and its subcommittees and was elected Chairman of the EMC Committee in 1998.

P.F. graduated from the Chinese University of Hong Kong in 1978 with a Bachelor of Science in Electronics. He has been licensed as a Professional Engineer in Ontario since 1992. He is also a Chartered Engineer registered with the Engineering Council (UK) and a Member of the Institution of Electrical Engineers.

He worked for the Hong Kong Government before 1988, including years with the Telecommunications Authority dealing with spectrum management and frequency coordination. After the successful roll-out of a wireless data network at Motorola Canada, he joined the Rogers group company in 1989. He was actively involved in the development of the North American digital cellular standard and IMT-2000 for the next generation wireless systems.

P.F. is married with a son who now stays away from home for his university study. Challenging himself with continuing education, he just completed his M.S. study in Telecommunications and Network Management from Syracuse University, New York. Congratulations! To make up for the lost weekends occupied with classes and assignments, he now enjoys movies, badminton and walking under the sun with his wife.

RABC Response to DGTP-005-2000 (RP-022)

The new RP-022 – Proposed Changes to Existing Policies Respecting the Licensing of Microwave Radio Facilities – proposed in Industry Canada Gazette Notice DGTP-005-2000, will streamline, relax and consolidate into a single document three long-time policies – RP-015, -017 and -018 – dealing, respectively, with: the Carriage of Program Signals to Broadcasting Undertakings, Intercity Radio Facilities and Limited Area Radio Systems, and which imposed various restrictions, limitations, and conditions of licence on the applicants for such systems and on the systems themselves.

The RABC's response, prepared by a WG by **Harry Linton (CCTA/Imagineering Ltd)**, was highly supportive of this timely initiative by Industry Canada, particularly in view of: the recent general deregulation within the telecommunications and broadcast distribution industries, the ever-increasing facilities-based competitive environment facing traditional monopoly telecommunications carriers and broadcasting transmission and distribution undertakings, the emergence of numerous new multimedia services available to Canadians, the development of new RF technologies and systems for the carriage and delivery of these services, and the convergence of telecommunications and broadcasting/cablecasting services and of the organi-



*Harry Linton—CCTA/Imagineering Ltd—
Chaired the WG on RP-022*

zations providing them. Some of the key issues in RP-022 included: the elimination of Limited Area Radio Systems as a system category, the carriage of third party traffic on private systems, the possible elimination of privileged access by certain user types to certain bands, and the possible elimination of the requirement for broadcasters/cablecasters to share their signals with other similar organizations on a non-profit basis.

Don't Forget Spectrum 20/20

Don't forget Spectrum 20/20 2000 which will be held in Ottawa on 29 and 30 November 2000 at the Chateau Laurier.

The Programme Committee (Chaired by **Sabah Towaj** of Industry Canada) is lining up an excellent array of speakers who will address topics which matter to you, now.

Registration—all inclusive—is only \$600.00 + tax.

For registration and further information please contact:

Conference Coll Inc.
at

Phone: **613-224-1741**

Fax: **613-224-9685**

E-mail: **concoll@istar.ca**



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RADIO ADVISORY
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Coming Event:

- 2000-09-06/08—FWC Committee (Montreal)
- 2000—09-13—M&PC Committee (Location: TBD)
- 2000-09-14—Executive Committee (Ottawa)
- 2000-09-18—EMC Committee (Ottawa)

clearNET

Clearnet is one of Canada's major telecom carriers, providing PCS and mobile radio services coast to coast. There are over 2,500 employees in the Clearnet family, reporting to a corporate headquarters in Scarborough, ON.

- Clearnet is a major contributor to the work of the Board: **Bob Simmonds**, Clearnet's Chairman and Executive VP Regulatory, is the Chair of the RABC's M&PC Committee, **Serge Bertuzzo**, Clearnet's Director Regulatory and Government Affairs is Chair of the Channel Loading Guidelines Subcommittee, and Clearnet members work actively in the RABC and in Canadian delegations to international conferences in fora like CITEL and the ITU.

The Last Word

FWCC Considers Wireless IP

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field for the wireless industry. In addition, there are potential Internet access issues affecting spectrum planning such as asymmetric band planning and these will be studied further within SC-C.

It is imperative that we make contact with those developing and fielding products designed to provide wireless Internet services and bring them into the RABC so that we can help them to make their requirements known to the rest of the Canadian radio-communications community and so that they can help us to offer Industry Canada the best possible advice on how to cope with these new products and services.

If you know people in the Wireless IP business please tell them to call us at **613-230-3261**.

Kwai Lum, Mr. RSS, is retiring from Industry Canada. Many members have worked with Kwai, argued with Kwai, disagreed with Kwai, and, ultimately, admired Kwai Lum's dedication, perseverance and professionalism. Kwai Lum was, always, animated by a desire to get the job done. He preferred that we should all share his views but, when we did not, he put his disappointment aside and got on with the task at hand. He worked very much in the spirit of the Radio Advisory Board—he did what was necessary to achieve the greatest benefit for the entire community while, simultaneously, working diligently to advance the position he thought best.

I write this just after reviewing a submission made to the FCC and I thought: the American would give almost anything to have a Kwai Lum—a technical expert and a conscientious official who is, also, a team player and who understands that the 'team' is, very often bigger than any one organization.

We all wish Kwai Lum good health and happiness in retirement.

RABC President Ron Coles found a few back issues of the Canadian Radio Technical Planning Board's Newsletters in his files. I noted, in the January 1974 issue, that the Board agreed to set up a committee to deal

with Electromagnetic Interference—I'm afraid we missed the EMC Committee's Silver Anniversary last year! In the same issue it was reported that an Ad Hoc Committee (Chaired by Dr. R.R. Jackson and assisted by Mr. R. F. Zeitoun of DOC) had finally completed its work on 470-960 MHz. It is interesting to note that, 25 years later, we are dealing with the same band—looking for ways to help conserve spectrum and to meet **all** of the needs of Canadians.

Finally, much of the Board's success stems, directly, from the fact that our work satisfies the needs of the industry, the government and, eventually, all Canadians. The only way we can continue to do that is by bringing the right people to the table to discuss issues which matter, right now, and which will matter in the not too distant future. We need your help—as individuals—to tell those people about the RABC and to invite them to join our committees.

Don't forget to register for **Spectrum 20/20 2000**—Call **Conference Coll Inc** at 613-224-1741 for registration information.

