

ROBERT C. BREWSTER, JR.

Montreal Sound Studio

The following three act saga recounts the building of a new audio control room in 'The Great White North'.' Take off, aeh!

ANADA IS BEST KNOWN in America for our exports of toothless hockey players, strong beer and space-arms for the N.A.S.A. Shuttleeraft. With any luck, this list will soon include low cost acoustically designed and constructed audio control rooms. Due to a gut feeling, and with a Vegas crapshooter's savey, a project was undertaken by Montreal Sound Studio owner and Head Engineer Bill Hill that, to a logical eye, would appear foolhardy at best. The tough economic times having already forced a few of the better known and higher priced already forced a few of the better known and higher priced already forced a few of the better known and higher priced about the demand and the need for Montreal Sound to have a perfectly designed and constructed audio control room. Shouldn't every studio have one? We all thought so, and were thoroughly convinced, until we found out that the basic going rate for such a room was \$35,000 and up. I mean, the last twelve months had been a banner year for Montreal Sound. We'd recorded two movie soundtracks, a disco album by a well-known major European star, and a dozen or more Canadian twelve-inch releases, not to mention all the jingles, commercials and audio visual presentation work generated from our two in-house companies, Hill/L'Espérance and Wavelength Productions. But there was still last year's purchase of a Harrison 4032 console to pay for. So the acoustically designed control room would have to wait... or would it?

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ACT ONE, SCENE ONE
June 15th, 1982
Enter into the scenario "The Seed Sower," twenty-five year old technical engineer Daniel Seguin, whose dreams and expectations went far beyond his current job of teaching studio sound engineering for a local institution. Seguin had rented time from Montreal Sound on June 15. Bill and Daniel innocently started talking about the weather that morning, and how nice it would be for the studio to have a perfectly designed and constructed audio control room. Four hours Systems D. G. Thomp, Amplifiel was the creator of the Dan local four and eight track studios and was just itching to lackle a full-fleedged twenty-four track room, the VI meters in Bill's head started peaking for the first time. Daniel was so eager to design the new "Montreal Sound" control room that he was willing to donate his design and manual labor for future considerations (many hours of late night studio time once the job was completed). Daniel also had access to some kilh-dried and aged two-inch Quebee White Pine that could be hand picked from a large order that was being prepared for export to Europe In fact, his lumber contact was so good that he could buy the 3,200 board feet necessary to do the control room on 19,15,000.00. These meters in Bill's head were now nearing distortion level. Once Daniel revealed that he had just recently installed the brand new video projection system aboard Air Canada's L-1011—500's, and just happened to be part of the technical team that worked on the Robert Browster, Jr. is a freelance creative writer.

Robert Brewster, Jr. is a freelance creative writer,

Canadian-made spacearm for the Shuttlecraft, Bill's heart couldn't handle the excitement anymore and he told Daniel to go ahead with the design.

ACT ONE, SCENE TWO

ACT ONE, SCENE TWO
July 6th, 1982
Michel L'Espérance, Paul Zakaib and Bob Brewster are
trying to enjoy their morning coffee. Bill Hill is making it
extremely difficult as he spews forth this insane idea about
putling together his dream control room for only \$5,000.00
American, ach). Needless to say, we
found it quite hard to laugh and drink coffee at the same
time.

time.

Paul: I think the boy needs some new batteries for his adding machine.

Michel: Let's hope it's only that.

Bob: You mean?...

Michel: It's highly probable.

Paul: You mean the dude has finally gone one disco mix



Some of the cast: (left to right) Bill Hill, Daniel Séguin and Bob Brewster.

over the line and has harmonized and flangerized himself to the point of mummifrying his brain?

Michel: All the evidence is pointing that way.

Bob: Who's going to break the bad news to his wife and kids?

Paul: (with a young child's excitement) I'll do it! I'll do it!

Please, please. Can !? Can !?

Bill: (very seriously) Really guys, if we all pitch in a few hours of labor a day and can find a master carpenter who will work for nothing, we can pull it off for about six grand. The best part of this whole plan of mine is the estimated downtime of only three weeks.

Everyone in the room shared a warm hearty round of laughter: all, that is, except Bill. He had a look in his eye that reminded me of a young child lost in his dreams of anticipation, waiting for his new toy to arrive.

Paul: So Michel, shall I call the cookie wagon for Bill, or what?



ACT TWO, SCENE ONE

July 30th, 1982
Enter into the scenario the final key character, twertyeight year old self-taught master carpenter, Robert Maher.
If this insane project had any hope of being completed in the
alloted three-week time period, it would be due solely to the
magician-like wizardry that would have to be displayed by
Maher and his large entourage of fine woodworking tools.
Little did Maher realize when he walked into Bill'soffice
that morning just how much of that self-taught know-how he
was going to have to rely on. Maher had just finished three of
have a supplied to the supplied of the supplied to the supplied of the supplied to the



The brand new audio control room at Montreal Sound Studio.

night spots. This was followed by a total interior renovation and restoration of a mansion in Montreal's extremely wealthy suburb of Westmount.

wealthy suburb of Westmount.

Maheer: The house is owned by this man who has a lumber many from the suburber of the chance to work with some of the most exotic woods in the world. Stuff like Brazilian Pine, Elsurness Cede, Burl Roseswood, Hey, some of that wood cost teer buicks a board foot.

Makabir's late to home description. May

The blocks a board foot. Make's last job was designing and rebuilding the interior of recently released Montreal Expos' pitcher Bill Lee's new showed. There was no doubt in anyone's mind that Maher was caspable of handling the job. But, could be handle the totally interpeter of Paul Zakaib, voice-over dialect specialist and impersonator. He's usually a very pleasant guy unless the bagged lunch"; Dino Bartolini, Montreàl Sound's apprentice engineer. He is overly polite, extremely patient, young, strong, and willing to downy Job; Bill Hill, owner and chief engineer of Montreal-Sound, he is not to be counted on for too much on-site laboratis he'l the too busy pilling out his hair and arranger. Generally, he's your basis sweet guy, four got to watch those sweet guyst, and Bob Brewster, without a doubt one of the world's leading excess-makers, wheen a back it up with an uncanny natural ability of being totally incompetent when it comes to handling any-task that even slightly resembles manual labor?

Before Rober! Maher would have the honor of working with this unique ensemble of "tundra monkeys" (we've been led to believelthat this is a popular American term for Canadians; we like it a lot better than hosers, ach!), he welld have to come to terms with the legendary financial negotiator, Bill "it costs too much" Hill. Good luck, Robert!

ACT TWO, SCENE TWO

ACT TWO, SCENE TWO
Same day
Bill was sweating bullets as Maher walked into his office.
He had just gotten off the phone with Damiel who his office.
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and lear this control room apart. The new one starts going in and lear this control room apart. The new one starts going in Paul, Michel, Dino, Bob: What?!!

Haul, Michel, Dino, Bob: What?!!

Maher: Rule Number One, and the only Rule! I never repeat myself, or tear things down. I just build themup, I like lots of hot office and I never work weekends; Any questions? No. Good. See you all Monday morning, 7:30 sharp. While the boys started scurrying around wondering what to gently rip out first, I ran after Maher to find out why he accepted the job of constructing the "flarep perfectly acoutically designed control room." If you notice a slightbit of sarcasm in my words, it's because I was the only one who was perfectly happy with the old control room.' I resunted great to me and the grease stains on the walls gave it that homey touch. But what the hell do! Know? I'm tone deaf. Bob: Hey, Maher. What's the hurry?

Bob. Hey, Maher. What's the hurr?

Maher: I have to get back to mry?

Maher: I have to get back to mry shop and sharpen allow tools. Then, I have to disassemble my saws, pack theritin the truck, double check all the plans for extra tools and material that might be needed....

nat might be needed.... Bob: Okay, I believe you. So tell me, how come you took the

Bob: Okay, I believe you. So tell-me, how come you took the job?

Maher: Not for the money; that's for sure. I'm lucky if Figet paid at all. You musician types have a bad reputation. The doing this strictly for the challenge and the experience of tackling something totally foreign to me. Actually: I'm approaching this control room as one big plece of the furniture.

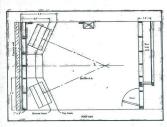
Hurniture.
Bob: Very interesting.
Maher: I don't know how this room is going to sound! but you can bet your ass it's going to be constructed perfectly and look even better. See ya later. Bob. I got work to do.
Bob: Yeah, later.

AGT THREE SCENE ONE (Week One)

AGT THREES, SCENEGANE (Week One)
August 2nd 1982.
The whole studio-complex looked like a quickly thrown together lumber yard as Isaansteredin thatimerning. Thanks to some spontanely and thoughtful maneuvering by Bill, we had use of the empty office next door to store and cust the wood. To get this space. Bill had promised the building superintendents that he would let them: sing on our next jurige. As Jearnefully stipoted my was tothen owempty control room, I could hear Mainer's gruff-voice barking out orders. He drove home the point about power touls single, and proper maintenance procedures to the crew of newtoe laborers at his disposal. Misher later totil me in private that if he had realized therevew was disposable, he would have dumped the whole 16t.

realized thereve was disposable, he would have dumped the whole lot.

Most of the first day was spent unpacking and setting up Maher's makeshift, portable work shop. We side separated and selected the wood that was to be used in the framing of the cushioned footings that the whole structure would sit on. Daniel Seguin didn't arrive on the scene until late afternoon, as he spent most of the day double checking the dataon the computer readout. Daniel ones told me that if it's possible for any variable or group of variables to be computed: they should be, and then programmed, to be considered in the design. Daniel had assured me that everything from the totall weight of the completed structure, down to the uniform absorption coefficient subtreams of the two-inch white pine versus the half-inch cedur, had been considered. Inched was convinced he had thought of everything. I'm glad he was, because F wasn't. Be'd forgote to compute the piece of



bubblegum I'd left stuck under the Harrison console before they built the box around it.

bubblegdm 1d left stuck under the Harrison console before they Beifft the box around it.

Auginzi 37rd, 1982
Disassembly of truss in the workshop and the setting of it frifto place in the control room was painstaking work, as the self-constained box structure was to be floated on pads and reintain hidependent of any adjacent walls. This would self-revening space around the whole box and would free the achieves in space around the whole box and would free the achieves the space around the whole box and would free the achieves the space around the whole box and would free the achieves the space around the whole box and would free the achieves the space around the whole box and would free the achieves the space and the space and the property of the space and the property of the space and the property of the space and th



of pointing out to Maher the similarities between writing a complicated melody line and coordinating an on-site working crew. Whatever the system, it appeared, on the surface at least, to be working. Daniel could be seen every once in a while running around with his slide rule and tape measure.

while running around with his slider tule and tape measure. August 6th, 1982
While Maher was cutting and fastening the inner pine shell to the frame, Michel was trying to force Maher into signing over the publishing and performing rights of their newly diseasened ited. The musical method of manual labor." Dentier has a Paul spent most of the day building the easity that waslikhold the Westlack studio monitors. Dino was stuffing insulation all over the place and silicone caulking owegething insulation all over the place and silicone caulking owegething insulation all over the place and silicone caulking owegething insulation all over the place and silicone caulking owegething insulation all over the place and silicone caulking owegething insulation and the sulfact when the sulfact were honorated to purchase a few unforseen supplies.

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Circle 34 on Reader Service Card

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1983

Week One Summary

After five non-stop sixteen-hour work days, interrupted only by hundreds of threatening phone calls from our wives and periodical visits from the local Greek pizae delivery man, we desided to call it a week.

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ACT THREE, SCENE TWO (Week Two)

ACT THREE, SCENE TWO (Week Two)
August 9th, 1982
Robert "wêre going to need more" Maher was driving Bill
crazy with his outrageous demands for inconsequential items
like screws and nails. Way back on August 2nd, Bill had
bought a brand new note pad. This rather thick pad was
quickly being filled up with a list of "don't worry Bill, it's only
ten dollars" items. The office avall was demolished to allow an
extra two feet to the control room for a base trap and sandfilled baffle wall. Since I had once sat through a Bruce Lee
Kung Fu Festival, I was awarded the honor of running
through the old gyprock wall. Both of the new walls began
fabrication that day.

fabrication that day.

August 10th and 11th, 1982

Everyone was feeling the pressure as the ten-day construction deadline was rapidly approaching. The always polite Dino was now snapping at everyone with some of the finest mixture of street Italian and French heard this side of New Jersey. The clear-red B.C. cedar was cut and put into place on the control room walls. Sixty bags of sand were painfully lifted and poured into the baffle wall by Paul and Dino.

TO THE RESERVE OF THE

August 12th, 1982

The two new door frames that would separate the control room from the rest of the studio complex were set into place. The suspension system for the 600 cubic feet of base trap was the suspension system for the 600 cubic feet of base trap was causing the many sounds borning panel of the suspension system of the suspension that would nake up this suspended base trap. This, he said, would achieve the transfer of acoustic energy into kinetic energy, thus reducing the sound pressure level at low frequencies.

August 13th, 1982

Maher was busily putting the finishing touches on his latest woodworking masterpiece. Dino and Daniel were passing A.C. wires through the ceiling of his clothes closet in the hallway. This, I was told, had become then whome of the power amp rack. Paul was trying his best to put Bills office wall back together while Michel was on the phone trying to hustle up some new business to pay for the over expenditures of the new control room. Bill was keeping a low profile, as we all knew he still had some money left in his wallet.

all knew he still had some money left in his wallet.

Week Two Summary

We called it Week Two around nine o'clock on Friday,
August 13th. It might have been an unlucky day for some
people, but this unsightly bunch of bumbling bafoos was
right on schedule and damn happy about it. Bill was so
overcome by the absurdity of it all that he took the whole crew
to MacDonald's for burgers and fries, (Actually, we went to
the local striptease club for a round of cold beer and a 'looksee, 'but MacDonald's sounded better to the wives, 'Everyone
was a little saddened that night as we helped our spiritual
leader pack up all his magical woodworking tools and place
them carefully in this van. His job completed, Robert Maher
would now be leaving us, but he vowed to return.

Maher You guys just know I'm going to forop by at the end
of next week to watch you all crawl as your deadline passes
you by... Bye!

you by... Bye!

As Maher's truck slowly pulled away into the city streets, the boys all stood there and waved until the last glimmer of his taillights dissolved into the night. I think Bill even had a tear of joy in his eye as he thought about how good it would feet to have a few dollars left in his pocket at the end of a day.

Michel: Who was that man? Paul: I don't know but the sucker drove a six-inch silver nail through my skull before he rode off.

Bob: See, Dino, I told you he liked Paul best.

SECTION A-A

Montreal Sound Studio **Equipment List**

CONSOLE

Harrison 4032 with Allison Automation

TAPE RECORDERS

1 24-track MCI with Autolocator III
2 Studer 2-track with Dolby noise rec SIGNAL PROCESSING DEVICES

SIGNAL PROCESSI

1 Eventide Harmonizer

1 Eventide Flanger

1 Eventide Phaser

Lexicon DDL UREI LA3A Limiters

4 Kepex 1 EMT 240

AMPS

1 Crown DC300 2 Ward-Beck

SPEAKERS

Westlake, bi-amped Auratone and JBL 4311s Bryston 4Bs

MINCELLANEOUS
10 Beyer Headsets
20 various Microphones: Neumann, AKG, ElectroVoice, Shure, Milab
Yamaha 6-fot Grand Piano
Fender Rhodes Piano
Clavinet MISCELLANEOUS

Clavinet Fender Twin Reverb Hammond and Leslie Organs

Daniel: Thank God, he's gone. Now I can get some work

done.

August 15th and 16th, 1982

Like August 7th and 8th, these were both used for well deserved rest. Somewhere, though, in the inner bowels of a sleeping city. Daniel Seguin was tossing and turning in his sleep as technicolor visions of acoustically designed studio control rooms were dancing the Charleston on his ceiling. The weight of this insane, or maybe notso insane, project was now clearly resting on Daniel's shoulders. He himself admitted that Maher had constructed the room to his exact specifications.

specifications.

Daniel: Really, guys, all kidding aside. This Maher, he's not just a carpenter, he's a great artist.

Daniel had been a big thorn in Maher's side at times, as he was constantly in the way double checking every move of the construction. He did this because no one knew better than himself that the brunt of the workload for the remaining days was his alone; the worry load he could share with Bill.

ACT THREE, SCENE THREE (Week Three)

August 16th and 17th, 1982
Paul spent most of the two days vacuuming the whole studie complex from top to bottom. Michel followed Paul around with a feather duster and a damp cloth—what a team! Dino tackled the overwhelming task of cleaning up the empty office next door that was used as a workshop and for lumber

storage. Daniel was zooming around spraying all the components with contact cleaner before setting them into their proper place in the new scheme of things. The decision to totally rewire everything where at all possible was made by Bill. I mention this only because I spent the better part of two days running around Montreal trying to find some one fool enough to give us the wive we needed on credit.

August 18th and 19th, 1982

The color in Bill's face that had been missing the last few days slowly returned as everything miraculously was falling into place. Dino spent most of his time in the now artight ceiling as Daniel skillfully maneuvered bunches of wire through a tiny crevice in the loset. These wires led to a preconstructed wood unnel that somebox carns wire tree through a tiny crevice in the closet. These wires led to a preconstructed wood unnel that somebox carns with the contract of the contr

Michel: I tell you, darlings, this fabric is going to bring out the true flesh tones of our music.

Michel: I tell you, darlings, this fabric is going to bring out the true flesh tones of our music.

Dino spent a good deal of time in the power amp closet installing wires and a cooling fan. Daniel was permanently riveted to the back of the console with his soldering gun and his V.O.M. Every once in a while. Daniel was permanently riveted to the back of the console with his soldering gun and his V.O.M. Every once in a while. Daniel could be heard muttering, "Abernaci This is getting serious." Bill, as usual, was on the phone. I spent most of my time trying to dodge Paul, who was running around with a cano furniture polish, Paul, who was running around with a cano furniture polish, which was the property of th

THE END.

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