

#### BROADCAST CONSULTANTS FOR XM SATELLITE RADIO

Design and Custom Product Solutions for the financial and technical realities of 21st century broadcasting



STUDIO, FACILITY & SYSTEMS DESIGN . TECHNICAL FURNISHINGS . CUSTOM HARDWARE & SOFTWARE PRE-ENGINEERED STUDIOS . PROJECT MANAGEMENT







To Our Media Colleagues:

Thank you for your interest in NCC's professional services. As consultants, the most difficult question is one we are most often asked: to describe our company. Judging by our accomplishments, it is tempting to think that we might be architects, engineers, manufacturers, distributors, systems integrators, contractors, or software developers. But it would be more appropriate to identify us as a value-added think tank for the electronic media. The value we add comes from our ability not just to examine, research, report, and specify, but also to develop unique products and execute highly creative solutions to satisfy unique situations.

Our successes are often predicated on bucking the tide of conventional thinking. Human beings answer our phones. Customer service is not just what we promise, but the product we sell. We strive to comprehend and integrate all of the technologies that affect your ability to disseminate information and entertainment through the mass media, and to relieve you of this burden.

To demonstrate our global approach to assisting our media clients, we are proud to present a modest list of our achievements on the following pages of our NCC Scrapbook. Each of the projects it describes had no precedent beyond the creative thinking and research that is the hallmark of NCC's endeavors on behalf of its clients.

So if your project has special requirements that are unique to your situation, NCC is your best choice for the successful resolution of your endeavors. We are uniquely qualified to address both the common and the extraordinary.

We welcome the opportunity to make your project a success with the minimum of effort on your part.

Cordially,

Alfred W. D'Alessio

President, NCC Inc.

## NCC Scrap Book

### ZOOM!

Draw a box around any image with your Acrobat<sup>TM</sup> ZOOM tool, then click to see it full size.



1979



The day we hung out our shingle as A.W. D'Alessio Associates on East 38th Street, our complete armamentarium consisted of a brand new IBM Selectric typewriter, a white lab coat, a stethoscope, and a lot of patience.

Today, we still rely on them, especially the stethoscope, which we use right along side the most sophisticated FFT acoustic analyzers. Besides being a handy tool, it's also an appropriate symbol of what we do best — listening to both our clients and their environments.

1981



No, we didn't invent the typewriter. But a lot of secretaries were still typing on these when NCC became a vanguard in personal computing. In 1981 we bought our first workstation — an 8 bit, 6 MHz screamer with 8" disks, a CP/M operating system and a whopping 64K of memory.

By 1985 our competitors were still brushing the eraser crumbs off their drafting tables as we began offering not just CAD drawing, but 3D modeling and development.

1983



The focus of our original designs served the television and recording media. By 1982, we had taught a Gould 32 bit minicomputer to see and analyze human motion to assist orthopedic surgeons evaluate their patients.

The following year fulfilled our love affair with radio. We were the prime systems and architectural consultants for New York City's own WNYC. For fourteen years after opening day, the PR&E-equipped AM/FM facility stood proudly as the largest and most sophisticated in the city.

1988



Years ago, radio engineers figured out they couldn't build a good do-it-yourself console for less than they could by a great factory-made one. We figured that was a pretty good model for guaranteeing a faster, better, and easier way to build studios by factory fabricating them.

Our pre-engineered studio designs and systems engineering for WQXR in New York remains a paradigm in design excellence and became the hallmark of our association with quality and innovation.

1989



In The King and I, Anna patiently laments that "by your students you'll be taught."

And so it was, during NCC's eight year tenure as exclusive systems and acoustical consultants to CBS Radio, that we got some of our best ideas. There wasn't a type of radio business that CBS hadn't undertaken, and together we mapped a digital vision, unfettered by the limited foresight of manufacturers who rarely left the isolation of their factory offices to see what the world needed.



1989



NCC brought New York's first tapeless scoring studio on-line. It featured a New England Digital 64 voice Synclavier<sup>TM</sup> and a 32 track Direct to Disk<sup>TM</sup> System. Heavy duty stuff for its time, it's still cranking out TV promos and commercials that we hear every day.

(For musicians who didn't have an EE degree from MIT, the whole system could actually be operated from a 66 note MIDI keyboard controller. Imagine that.)

1990



For 3 days generator warnings flashed and rang in the power room as computers faithfully logged the event — but no one was there. On Tuesday September 17, 1991 the UPS batteries gave up, and AT&T launched the biggest telecommunications failure in US history.

An NCC Accutrak<sup>TM</sup> messaging system could have relayed the situation and complete instructions for a remedy to wherever the maintenance personnel may have been — even in the rest room!

1991



Our offices might be in the Big Apple, but our ideas are mostly down home. When we got to wondering why broadcasters were shelling out real money to buy and lug bottles of the planet's most plentiful gas, we developed our Drygen™ nitrogen generation system for maintaining peak performance from even damaged transmission line and wave guide.

That thinking won us Broadcast Engineering's Best of NAB Show citation

1994



In September of 1993, the Sony Warner Networks were just a concept and a business plan. Not even a sketch existed of how the studios might be laid out.

But by January 1994, the networks were fully operational. Thanks to Acoustic Systems pre-engineered studios and NCC's proven approach to facility design, the entire design-build-integrate cycle for this complete network operation was only four months — less time than it takes just to design do-it-yourself facilities.

1995



If you had to sum up what we sell in just one word, it would be enclosures. Some of them are soundproof and large enough to hold 100 people. They're made from steel composites — the most efficient sound barrier available.

For others that you can hold in your hand, or plug into a network, we've perfected applying a patented technology that enabled us to make small production runs of ABS plastic cases and enclosures for Musicam USA and Logitek without wasting the time or expense of injection molding.



1995



The first successful word processor was Wordstar.

The first successful news text editor was News Star. The first successful news text and audio editor was the CBS Pace. It was about the size of a washing machine, ate

Unix for breakfast, but set the pace for others to follow.

Advances in PC speed, audio cards, and operating systems allowed us to develop Pace Lite. With it and a laptop, a correspondent has portable access to CBS News venues and actualities, at his desk or wherever news is breaking.

1997



NCC's expertise in television systems came in handy for documenting a reliable systems and timing approach for integrating digital I/O's for the new WQHT studios in New York City.

And the timing was superb — WQHT was the first all-digital radio facility in the country. All that was left in the analog domain were the mics, headphones, speakers, transmitter, and the talent.

1998



The brightest idea CBS had since inventing the LP is the <u>real</u> virtual console. Since it replaces about 80% of hardware and wiring, it's more like a whole radio station.

We developed this fully addressable radio system to replace just about anything you could accomplish with routers, mixers, patches, and outboard gear. Limited only by the programmer's imagination, audio, telephone, news, and data can be seamlessly integrated and controlled in real time from anywhere there's an RJ-45 jack. Now that's Plug and Play. — and the future of radio technology.

2001



# XM HAS THE LARGEST RADIO PROGRAM CENTER ON THE PLANET!

It was designed by one of the world's smallest consulting firms.

We're very proud of that.

20??

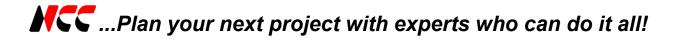


What will we accomplish this year?

While we have a very clear vision of the future, we have no crystal ball.

But we do invite you to write the next NCC milestone along with us.

We'll both profit from the experience!



#### NCC PRODUCTS

Custom Plastic Cases & Enclosures

Custom Furnishings

Acoustical Doors

Acoustical Windows

Decorum™ Acoustical Wall Panels

Pre-engineered Studio Enclosures

AccuTrak™ Message Systems

Loudspeaker/Video Monitor Brackets

Custom Analog & Digital Components

Storage Systems

#### NCC ACOUSTICAL SERVICES

Noise Control Surveys Room Tuning Laboratory Testing

#### NCC PLANNING SERVICES

Feasibility Studies

Fiscal & Budgetary Planning

Site Surveys

Value Engineering

Project Management & Scheduling

#### COMPREHENSIVE STUDIO DESIGN

Radio, TV and Recording Studios

Noise & Vibration Isolation

Systems Design

Furniture Design

Electrical Design

Air Conditioning & Mechanical Design Photo-realistic Color Renderings

## You're in Great Company at...

**RADIO FREE ASIA EFFANEL MUSIC** WHITNEY HOUSTON CROSSWAY STUDIOS HOWARD SCHWARTZ RECORDING KAMEN ENTERTAINMENT GROUP MIXED NUTS RECORDING/EAST SIDE AUDIO & VIDEO **ABC RADIO NETWORKS CBS RADIO and TELEVISION NETWORKS NATIONAL PUBLIC RADIO NBC RADIO and TELEVISION NETWORKS** XM SATELLITE RADIO

**ICELANDIC NATIONAL BROADCASTING** 

**UNISTAR RADIO NETWORKS** 

THE IMUS RANCH STUDIO

Washington, DC

New York City

Mendham NJ New York City

New York City

New York City New York City

Nationwide

New York City

New York City

Washington, DC

Reykjavik

Washington DC and New York City

Ribera NM

#### KILT AM/FM and KIKK AM/FM

**KLYY** 

KNX and KODJ

KPIX, KCBS and KLLC

KYW, WOGL and WGMP

WABC and WPLJ

WCBS AM/FM **WFAN** 

WIBC, WTLC, WENS and WNAP

WJR/WPLT

WMAL and WRQX

**WNEW** 

**WQHT and WRKS** 

**WQXR** and **WQEW** 

**WYNY** 

WBBO, WNJO, WPST, WHWH and WTTM

Westinghouse Group W

Big City Broadcasting CBS Radio

CBS Radio

Westinghouse Group W

Capital Cities/ABC Broadcasting CBS Radio

Infinity Broadcasting

Emmis Broadcasting Capital Cities/ABC Broadcasting

Capital Cities/ABC Broadcasting Westinghouse Group W

Emmis Broadcasting The New York Times Company Westwood One

Jersey Radio Network

and many, many more

Houston

Los Angeles Los Angeles

San Francisco Philadelphia

New York City New York City

New York City

Indianapolis Detroit

Washington DC

New York City New York City

New York City New York City

New Jersey