



2019 EDUCATION PROGRAM • FREE INDUSTRY SESSION



KEN SINCLAIR
Automated
Buildings.com



THERESE SULLIVAN
BuildingContext
Ltd



BRAD WHITE
SES Consulting,
Inc.

Smart Building Automation Evolution from Ethernet to Emotion

Presented by
AutomatedBuildings.com

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SMART BUILDING AUTOMATION EVOLUTION

Timeline linking articles depicting our evolution as an industry Curated by Ken Sinclair & Therese Sullivan.

Reflects back to 1900 but actively starts with birth of DDC in the mid 1970. Starting in about 1999, leading Building Automation professionals were early collaborators in the effort to put real time data in service to better interior comfort and energy efficiency. They recognized their role as catalysts of this paradigm shift and set to work aligning all the necessary people, and technologies. Here's a timeline of their achievements. All the leadership articles, commercial announcements, and press releases that compile this timeline were found in the database of the online magazine automatedbuildings.com.

Smart Building Automation Evolution

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1st Jan 1975 - 1st May 1999

Navigating & Searching

Navigation tips; use the timeline at the bottom to move through time. Push the 3d button in the left corner to fly through all the posts even faster. Each post includes a link to the full article.

[View on timeline](#)



10th May 1975

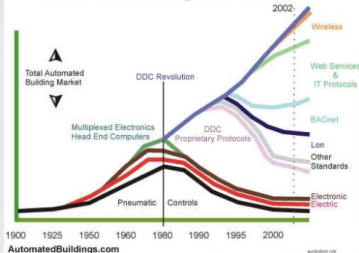
The Direct Digital Control revolution hit in the late 70s and early 80s

The Automated Buildings evolution follows the growth of the pneumatic control industry for a century seeing the gradual introduction of pneumatic transmission, electric and electronic control. In the mid 1960s electronic control evolved to multiplex control systems that rapidly evolved into head end computers that quickly gave way to mini computers and then it quickly ended with the personal computer and the DDC revolution. The Direct Digital Control revolution hit in the late 70s and early 80s. The use of DDC exploded, greatly expanding the scope of the traditional building automation control market while displacing the traditional pneumatic control industry. The Automated Building Control growth curve went almost vertical. The period between mid 1980 and mid 1990 saw the growth of many new control companies. These new companies were able to bring low cost, high functionality, proprietary protocol control systems rapidly to

BA CONVERGENCE

The Direct Digital Control revolution hit in the late 70s and early 80s
10th May 1975

Automated Buildings Evolution



The Automated Buildings evolution follows the growth of the pneumatic control industry for a century seeing the gradual introduction of pneumatic...

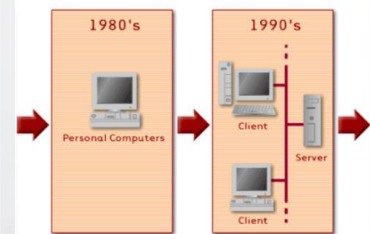
More →

10th May 1975

BA CONVERGENCE

Evolution of Information Technology
1st June 1975

Information Technology Evolution



Description of evolution of communications methods from proprietary, flat protocols to open, object-oriented information models. Simultaneous with...

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1st June 1975

IT/COMM INNOVATIONS

Godfather of BACnet Mike Newman
His Story and Mine
10th June 1975



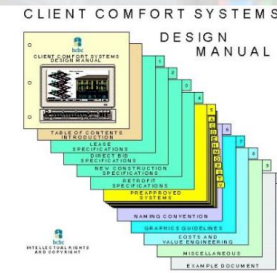
40 years of evolution in Building Automation
The first computer dedicated to monitoring building systems was installed in 1974 or 1975. In an...

More →

10th June 1975

COLLABORATIONS

Local History of our DDC Industry
10th August 1975



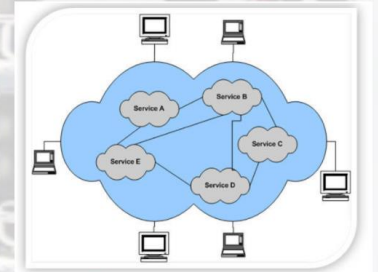
Several British Columbia start-ups that are now highly successfully international companies owe their start to a team of visionaries, who were focused...

More →

10th August 1975

IT/COMM INNOVATIONS

Internet Comes to Building Automation
10th May 1999



Ken Sinclair reports on how Internet connectivity is set to change real estate, facilities management and the buildings automation and systems...

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10th May 1999

1998

2003

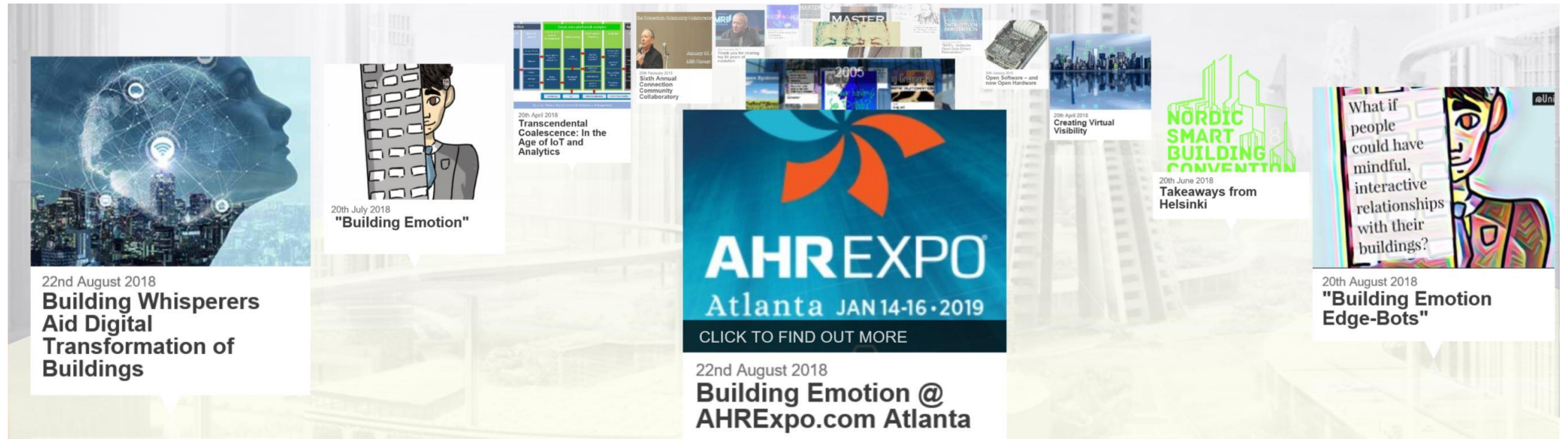
2004

2006

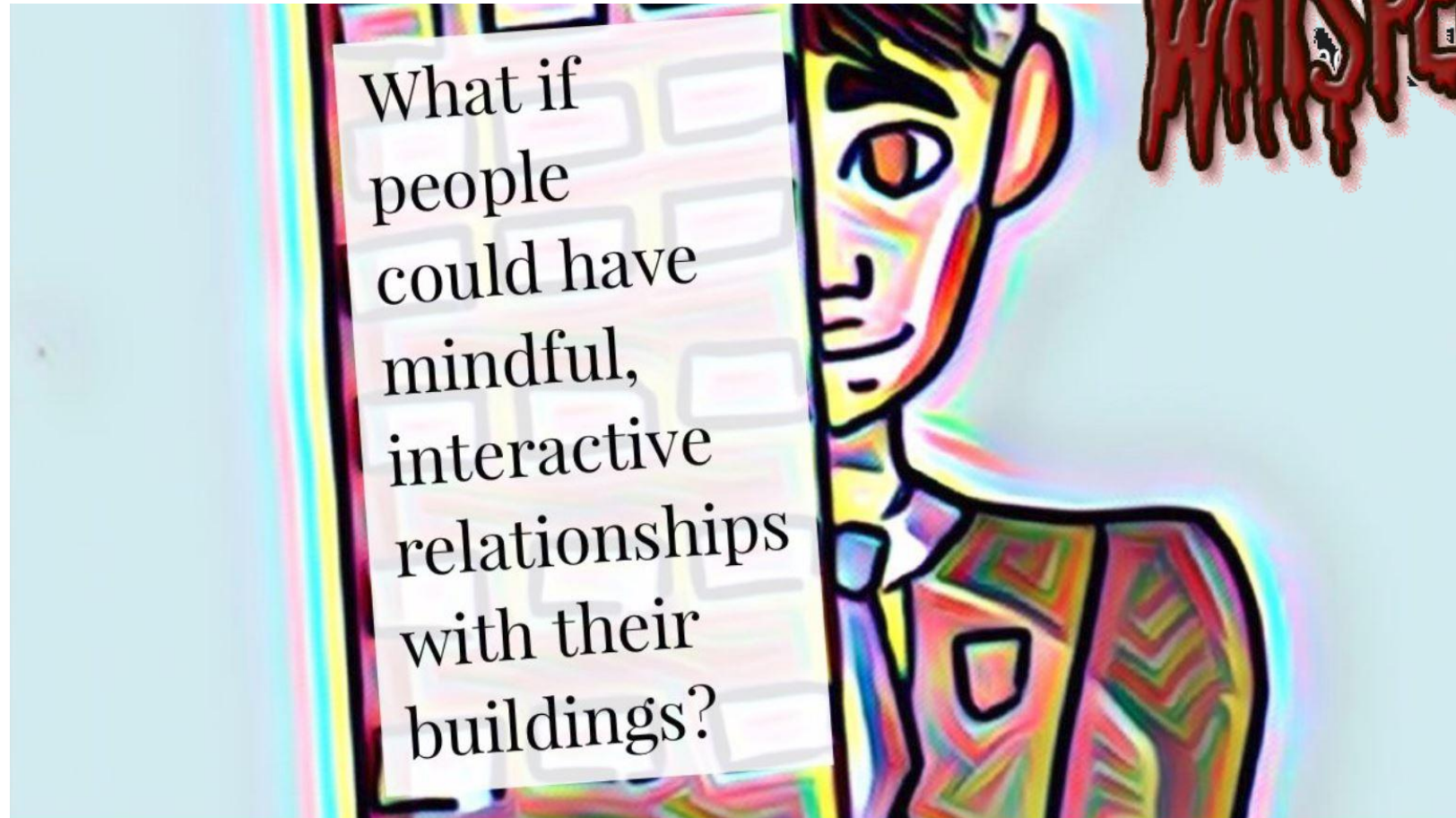
2008

2010

Want to flyover the last 20 years how we got to Edge of Change in 3D? Click on the 3D mode



Building Emotion



Creating Digitally Mindful Spaces

Dr. Lawrence Ampofo, Digital Mindfulness



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**LAWRENCE
AMPOFO, PHD**
Semantica
Research & Digital
Mindfulness



KEN SINCLAIR
Automated
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Smart Environments for Humans

Presented by AutomatedBuildings.com

JOIN US! MONDAY, JAN. 14 • 1:30PM – 2:30PM • LOCATION: B311

"Open"ing Up Our Buildings Brad White



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ZACH NESTOV
Contemporary
Controls



CALVIN SLATER
Control Air
Conditioning



NICOLAS WAERN
Go-IoT



BRAD WHITE
SES Consulting, Inc.

Next Generation HVAC Controls: Open Hardware – Open Software

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changing collaborative connection communities

This is all important discussion needed in the necessary disruption that is driving our changing collaborative connection communities.



AHREXPO 2019 EDUCATION PROGRAM • FREE INDUSTRY SESSION

Exploring Our Human Connection: 7th Annual Connection Community Collaboratory

Presented by AutomatedBuildings.com

					
TROY DAVIS EnOcean Inc.	MARC PETOCK Lynxspring, Inc.	JOHN PETZE SkyFoundry	KEN SINCLAIR Automated Buildings.com	GEORGE THOMAS Contemporary Controls	MARTIN VILLENEUVE Distech Controls

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