



# Adaptive Resource Engineers

## Building Services Consulting Engineers

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## PRACTICE CV

### Practice History.

- 1970 Established as C.E. Janeke & Partners.
- 1984 Janeke & Cumming Partnership thereafter Janeke & Cumming CC.
- 2000 Name change to Adaptive Resource Engineers coinciding with retirement and emigration of C.E. Janeke

### Principals.

#### D.C. Cumming Pr. Eng

Born 1954 Johannesburg.  
BSc. Mechanical Engineering Wits 1977.  
MSc. Environmental Engineering USC 1981.  
MBA Wits 1984.  
1978/9: Engineer Improvair Pty Ltd.  
1979/80: Engineer Ballast Nedam Riyadh Saudi Arabia.  
1981 - Present: Adaptive Resource Engineers.

#### C.C.F. Schaap Pr. Eng

Born 1967 Cape Town.  
BEng. Mechanical Pretoria 1992.  
1989 - Present: Adaptive Resource Engineers.

### Resources.

Professional Engineers	(2x)	(DC Cumming & CCF Schaap)
CAD Operators	(2x)	AutoCad is used
Admin/Support Staff	(3x)	

### Premises.

We operate from one office which is on the CSIR campus in Pretoria.

### Services Offered.

- Mechanical Services; Airconditioning, Fire Protection, Wet Services, Kitchens & Elevators.
- Electrical Services; Limited to adjunct to Mechanical Services.
- Automation, Control, Telemetry, Fire Protection & Security Services.

Particular Expertise.

Particular fields in which we believe we have extraordinary expertise are:

- Energy effective design. Meaningful input at the design stage and systems designed such that the building is energy efficient without detracting from the building's appearance, function or cost norms. Without exception, buildings incorporating our designs have among the lowest energy usages in multi building property portfolios. (Refer: Sanlam & Telkom)
- Evaporative cooling. Introducing direct or indirect evaporative cooling either alone as a system or as an extension to conventional airconditioning systems to achieve better comfort and energy consumption at a low capital cost.
- Control and Building Automation. All our designs since 1983 have had well configured digital control systems at moderate capital costs. We have been busy retrofitting more recent control systems designed by others while all our designs since 1983 still remain state of the art.
- Prestige Office Blocks. We have extensive experience and exposure on high profile prestige office blocks and corporate head quarters.
- Acoustic design of airconditioning systems. We believe that we are among the forerunners in airconditioning acoustic design and analysis (but not architectural acoustic design however) with in house analysis software etc.

A list of significant office block projects follow;

<b>Project/Building Name</b>	<b>Type of building &amp; services</b>	<b>Area (m<sup>2</sup>)</b>	<b>Completion</b>
Sanlam Plaza East	Office & shops. Airconditioning, fire & evacuation	17800	1985
Telkom Tower Head Office Phase 1	Offices. Airconditioning, kitchens, lifts & water reticulation	21000	1988
Sanlam Plaza West	Office & shops. Airconditioning, fire & evacuation	20300	1988
Telkom Tower Head Office Phase 2	Offices. Airconditioning	23300	1992
JHI House	Offices. Airconditioning & BMS controls	17700	1992
Investec Head Office	Offices. A/C New phase plus controls retrofit on original phase	18000	1995
Iscor Head Office	Offices. New Block. A/C refurbishment, BMS controls & fire detection.	40000	1996
Sanlam Middestad	Offices & shops. A/C chiller replacement, controls, BMS fire & evacuation system refurbishment	30000	1996
Investec Head Office Sandton	Offices. Refurbishment & extensions to existing building. A/C and Fire Protection	48000	1997
Bell Dewar Hall	Offices for a major law firm Airconditioning central with ducted distributed fan coil units	3000	1998
Jowell Glyn Marais	Offices for a major law firm. Refurbishment and new control system	4000	1999
Fedhurst/ FBC Fidelity Bank	Bank head office. Airconditioning	5000	2000
AC Nielsen	Head Office Airconditioning refurbishment	8000	2000
Medscheme	Head Office Airconditioning	11000	2001
Cell C	Operations Center Esher Place	3000	2001
Vodacom Phase IV	Vodacom International Head Office	4000	2002
Donald Gordon Medical Center	Medical (theatre & procedure) & general A/C	3000	2004
Edgardale	Refurbishment of Existing Edgars Head Office	33000	2004
Nedcor Park 2	Replacement of existing AC System	12000	2004
Tiger Brands	New Head Office Airconditioning	10000	2004

Other special interest projects include;

<b>Project/Building Name</b>	<b>Type of building &amp; services</b>	<b>Area (m<sup>2</sup>)</b>	<b>Completion</b>
Iscor Duncker Hall	General purpose auditorium A/C	500	1989
Iscor Club Ellisras	Multipurpose Hall	3000	1990
Rosebank Mall Cinemas	Movie theatre A/C 6 of Cinema Nouveau	1500	1992
Eskom Hendrina Power Station	Control room acoustic & vibration isolation, A/C & inert gas fire protection	800	1994
Iscor HQ Auditorium	Corporate head office auditorium A/C	200	1995
PWD AFB Waterkloof	Flight controller training facility & auditorium	1500	1996
BHH Synagogue	New Synagogue & Hall	3000	1999
Atlas Studios	Film Studio A/C	1500	2002
Domtex Service Road	Variable rate ventilation & smoke extraction, fire protection	5000	2003
Liberty Life	New Computer Center	1200	2003

Current work in progress includes;

<b>Project/Building Name</b>	<b>Type of building &amp; services</b>	<b>Area (m<sup>2</sup>)</b>	<b>Completion</b>
Edward Nathan Friedland	Refurbishment of Existing Export House	13000	2004
Hollard Insurance	New Head Office Airconditioning	12000	2005
Tanzania Parliament	Supervisory Consultant		2005