

Hidden Treasures

Photos and remembrances
contributed by
FIFE and BOREAS

FIRST ISLSCP FIELD EXPERIMENT



Measuring bi-directional reflectance on the Konza Prairie in FIFE

photo Fred Huemrich



Picture taken not long after a security guard considered calling the cops on us, but finally decided we were crazy but harmless *photo Fred Huemmrich*



FIFE



FIFE—Wayne Dulaney





FIFE

Jaime
Nickeson

FIFE



Wayne
Dulaney
Ned Horning
Rich Irish

FIFE Crew & Friends—Mitchell, Jaime Nickeson, Steve Ungar,
Don Strebel, Piers Sellers, Bob, Melanie, Penny Masuoka



FIFE Crew & Friends—Diana Obler, Don Strebel



FIFE Crew & Friends—Mike Bur, Bill Kovalik, Penny Masuoka, TBD, Charlie Schnetzler, Arlene Kerber

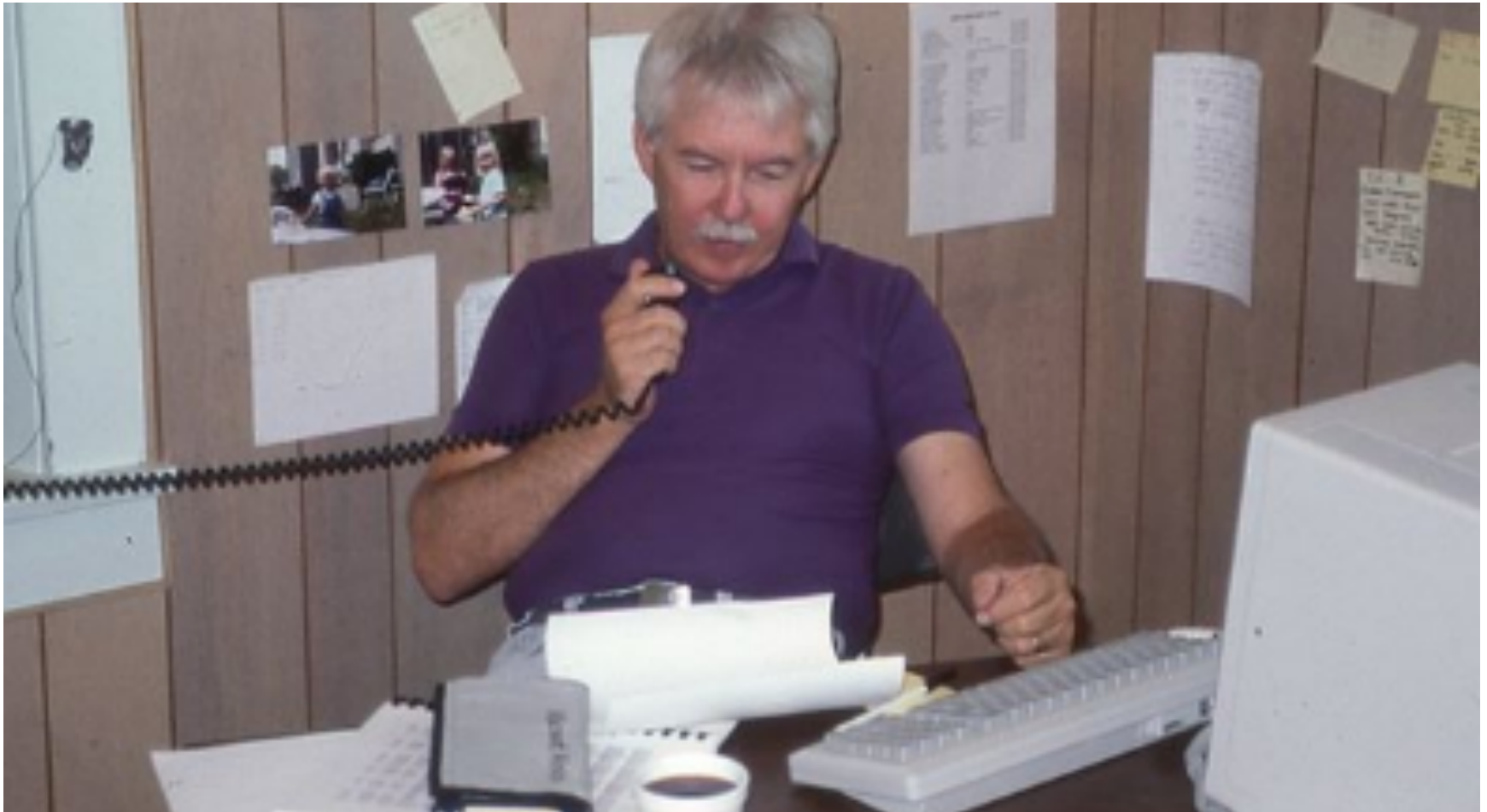


FIFE Crew & Friends—Patrick Agbu, Jim McManus,
Forrest Hall, Dave Landis, Karen Humes, Fred
Huemmrich, Dan Sullivan, Jeff Newcomer, Tom Eck



Forrest Hall running FIFE ops

photo Fred Huemmrich



FIFE Remembrance of things past & a bit about the future

Piers will remember “the guy in the funny hat and shorts” who met him at Stapleton Airport to discuss my involvement in the upcoming FIFE as well as an epic airplane ride with him as pilot when I asked him “why are you getting a better pilots license?” and he answered : “Because I want to be an astronaut.” I kept looking for flat spots for instrument sites.....

The FIFE's were the most fun expeditions I've ever experienced. We were a great (and funny) team.

Bob Grossman

Atmospheric and Oceanic Sciences (retired but active)

Univ. Colorado

FIFE Remembrance

I know Piers would enjoy reminding me of the 'John AbNorm' event at FIFE. I still remember it very well 29 years later.

John Norman

BOREAL ECOSYSTEM - ATMOSPHERE STUDY



BOREAS-- Ray Desjardins and Elizabeth Pattey, the first time stepping onto the famous board walk SSA-OBS

photo Elizabeth Pattey



THE EVENING TELECON...



Tierney
Cartoon
captures
how the
BOREAS
Ops center
felt when
trying to get
the daily
reports



Amy Ruck

(BOREAS Staff at SSA
Ops)

Database
Administrator
demonstrates her
juggling talents

Forrest Hall, Keith Kaminsky, Don Rinker,
Piers Sellers, Amy Ruck, Paula Pacholek, unidentified



BOREAS SSA Ops Center

What's a meeting without beer?





BOREAS SSA Aspen Tower

Paula Pacholek

Amy Ruck



A bit of
BOREAS
showing that
they are classy
at High Tea

Fred
Huemmrich
Kyle MacDonald
John Kimball
Jaime Nickeson

NASA C-130



BOREAS
SSA Ops

Eyeball
watching
over the
helicopter



BOREAS SSA OPS Center

Sashi
Verma,

Charlie
Walthall

TBD



BOREAS

Joe Berry
up to
some
monkey
business

*Photo Jaime
Nickeson*





BOREAS

Richard
Cuenca

Looking
very
serious

*Photo Jaime
Nickeson*



BOREAS Fen site selection



Forrest Hall
Rob Clement
Josef Cihlar
David Terroux
Unidentified
Don Lecke
Andy Suyker
Richard Cuenca

Photo Carla Evans



Photo courtesy of Tom Gower

BOREAS SSA



Sandra Shussel (Candle Lake) Tom Eck *Photo Carla Evans*



BOREAS Fen

Sleepy
(aka Andy Suyker)

Sandra Shussel
(Candle Lake)

Bashful
(aka Rob Clement)

Photo Carla Evans



BOREAS Site Selection

It takes two

Carla Evans

&

Scott Goetz

(BOREAS staff)

Photo Doug Anions
(PANP)

BOREAS Site Selection

John Stewart, Dan Hodkinson, Ross Nelson

Photo Carla Evans



NASA C-130





BOREAS SSA

Saskatchewan
round
bale hay art





BOREAS

SSA Tower site selection

Cindy DeCuypere

(CA BOREAS Secretariat)

Her luggage didn't
arrive so folks on strike
at PANP loaned her a
jumpsuit

Photo Carla Evans



BOREAS SSA Site Selection

Jeff Newcomer
(BOREAS Staff
Task Leader)

Photo Carla Evans

BOREAS SSA Ops



Sashi Verma

Charlie

Walthall

Unidentified

Photo Carla Evans

BOREAS SSA



Elizabeth Pattey
welcomes the
Bog boys on
their visit to the
Old Black Spruce
Site

Photo Carla Evans

BOREAS SSA



Jon Massheder
(Old Black Spruce)

Lecturing in
the
Hard hat
zone



Eyeball
Watching
over the
Helicopter
crew





Local art
or
voodoo
dolls?



BOREAS

Staff Hide-
away on
Candle
Lake



Hot tub party
around back



PANP
Ranger

Doug
Anions

BOREAS OBS SSA

Steve Scott

Sashi Verma

Rob Clement

Mark
Raymont

Unidentified





SSA
OBS

Gerry

Sandra



BOREAS SSA

Jack Pine

Dennis
Baldocchi

Chris Vogel



BOREAS
Staff

Snow
White

(aka Tracy
Twine)



BOREAS Fen Tower

Sleepy
(aka Andy
Suyker)

Photo Carla Evans

ELBARTOS



FOOD TO GO



BOREAS Fen

Grumpy

(aka Dave Billesbach)

Photo Carla Evans



BOREAS
SSA Old Aspen

Paula Pacholek
(Prince Albert
National Park)

Jaime Nickeson
(BOREAS Staff)



BOREAS

SSA Aspen
Tower

Karen
Mitchell
(BOREAS
Staff)

BOREAS--NSA Beaver Pond



Dave
Landis
BOREAS
Staff



BOREAS
NSA

The
Road



BOREAS Staff

Shelaine Curd



BOREAS

Shelaine Curd
(BOREAS staff)

Jon Massheder
Old Black Spuce



Safety!

Tower Climbing 101

Dan Hodkinson
and
Shelaine Curd

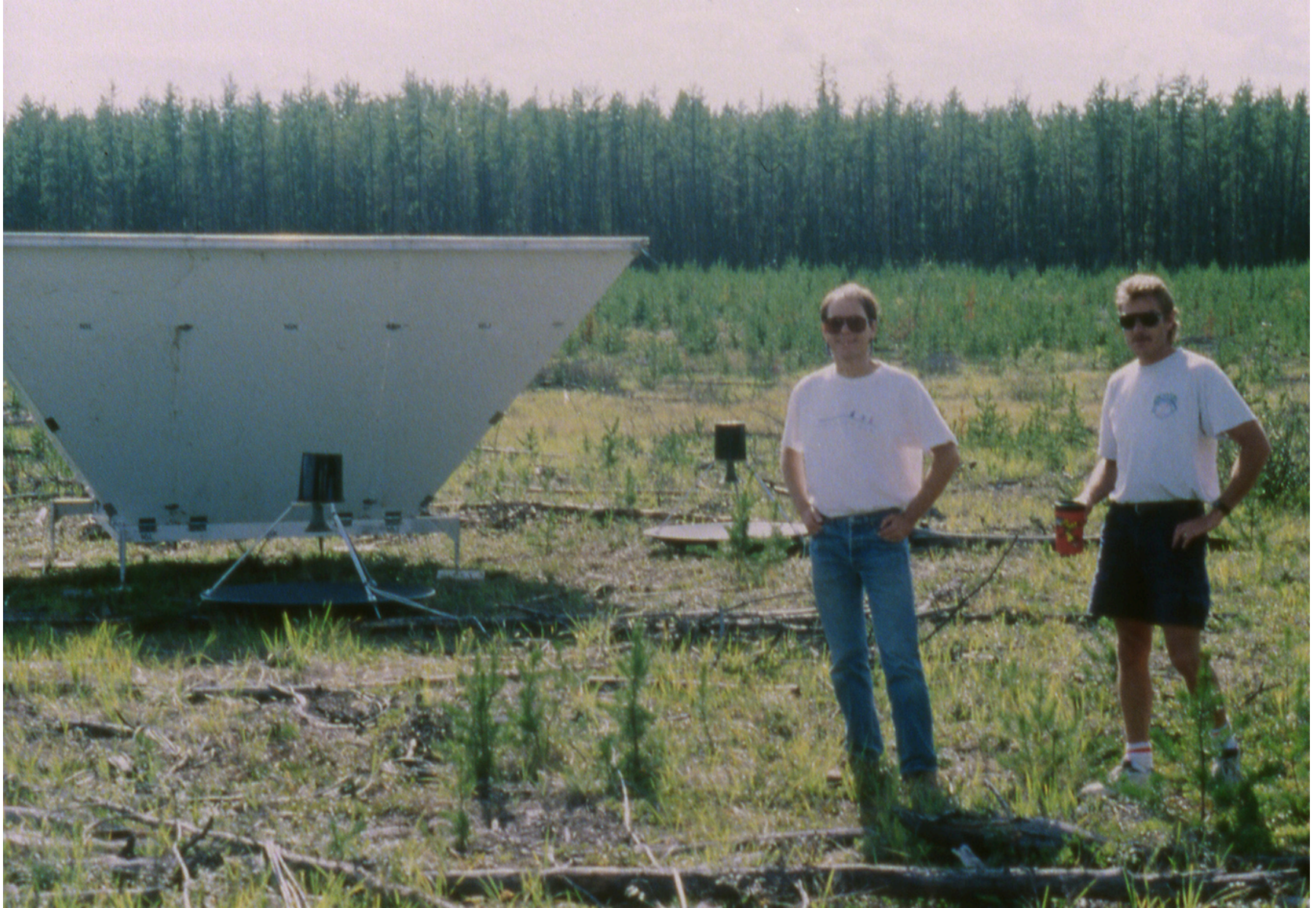




BOREAS
SSA

OBS
Mosh
Pit

Dave
Landis &
Smokin'
Dan
Hodkinson



BOREAS UFO



BOREAS

Derek

Peddle





BOREAS SSA Operations Center

Piers Sellers (Mission Manager) Carla Evans (Study Area Manager)

Sandra Shussell (Candle Lake)



BOREAS Site Selection

Eyeball: “Move a
little to the East”

Ground Crew: “Can
you see us now?”



BOREAS Site Selection



BOREAS Site Selection

Dan Hodkinson
(Staff)

Downtown Waskesiu Lake



Canadian
Time...stop
in at the
bakery for a
sticky bun



BOREAS
NSA

Nelson
Tribe
Sweat
Lodge



BOREAS
SSA

Old Aspen

Paula
Pacholek

Jaime
Nickeson



BOREAS Staff

John Stewart

Dan Hodkinson

Ross Nelson

Betsy Middleton

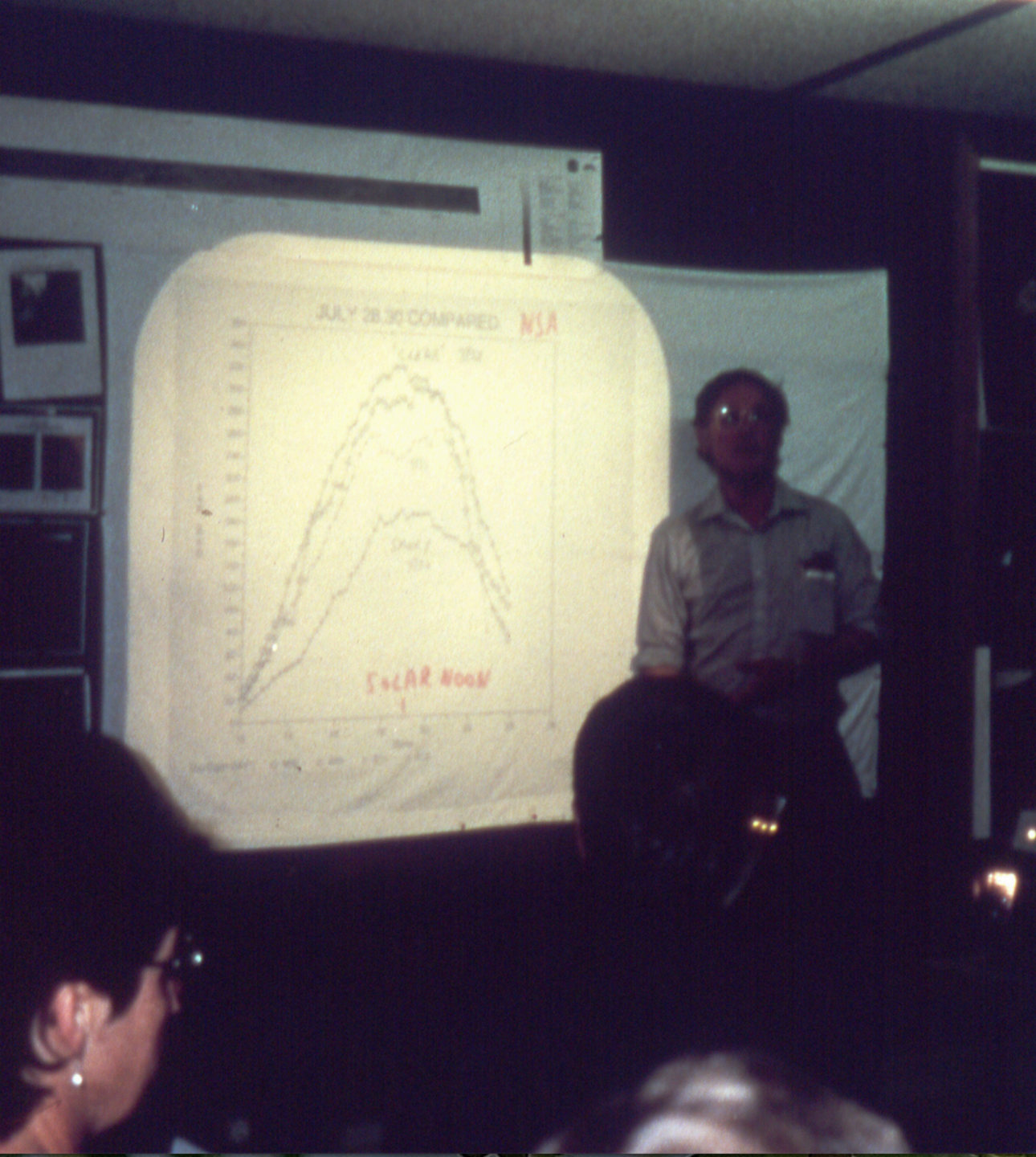


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Click

BOREAS
Nightly
Meeting

Alan Betts





Tom
Gower



Title

Twin Otter









Title

Click



NCAR Electra

[Click](#)



King-Air

Bob Kelly



Chieftain



C-130



Will bring my historical
'SPAM' hat.

David Fitzjarrald

I was a post-doc on BOREAS. BOREAS was my first exposure to science that was both multidisciplinary and interdisciplinary. By bringing together physics, chemistry, and biology (as well as physicists, chemists, and biologists) into one research program and team, BOREAS was able to tackle questions that scientists from any one one of these disciplines couldn't have even asked, let alone addressed. It showed what was, for me, a new and exciting way to think about and do research concerning how the Earth System works. Coming in a post-doc, I was also struck by the consistently supportive environment the faculty helped create. I think specifically of the ones I interacted with the most: Dennis Baldocchi, Tom Gower, Paul Jarvis, Brian Lamb, Russ Monson, and Hal Westberg. And BOREAS was also the place where I saw first how absolutely essential support staff are for any scientific endeavour.

Manuel Lerdau

.... yes these projects did change the world and trained the next generation of leading scientists in our field, examples include Jim Randerson, Dave Bowling, Marcy Litvak, among others

Dennis Baldocchi

Great idea! I wish I could participate but have teaching and meeting conflicts.; I would have jumped at the chance to reconnect with FIFE colleagues - especially our fearless leaders Piers and Forrest - but I will be frantically trying to finish up field work in the Sierra Nevada on those dates. Sorry to miss the event. FIFE changed my world view as a scientist and to this day I continue to collaborate with many FIFE scientists!

With best regards,
Frank Davis

I am glad the leadership of Forrest and Piers of what are seminal, world class scientific accomplishments are being recognized.

With My Best Regards Roger Pielke.

I am very sorry to miss this event, however, I will be in Manaus following in the footsteps of FIFE, BOREAS and LBA and working on setting up the operational phase ATTO tower. I have so many good memories from the BOREAS NSA. Hoping for a chance to get back to Thompson and re-sample some of the soils.

All my best,

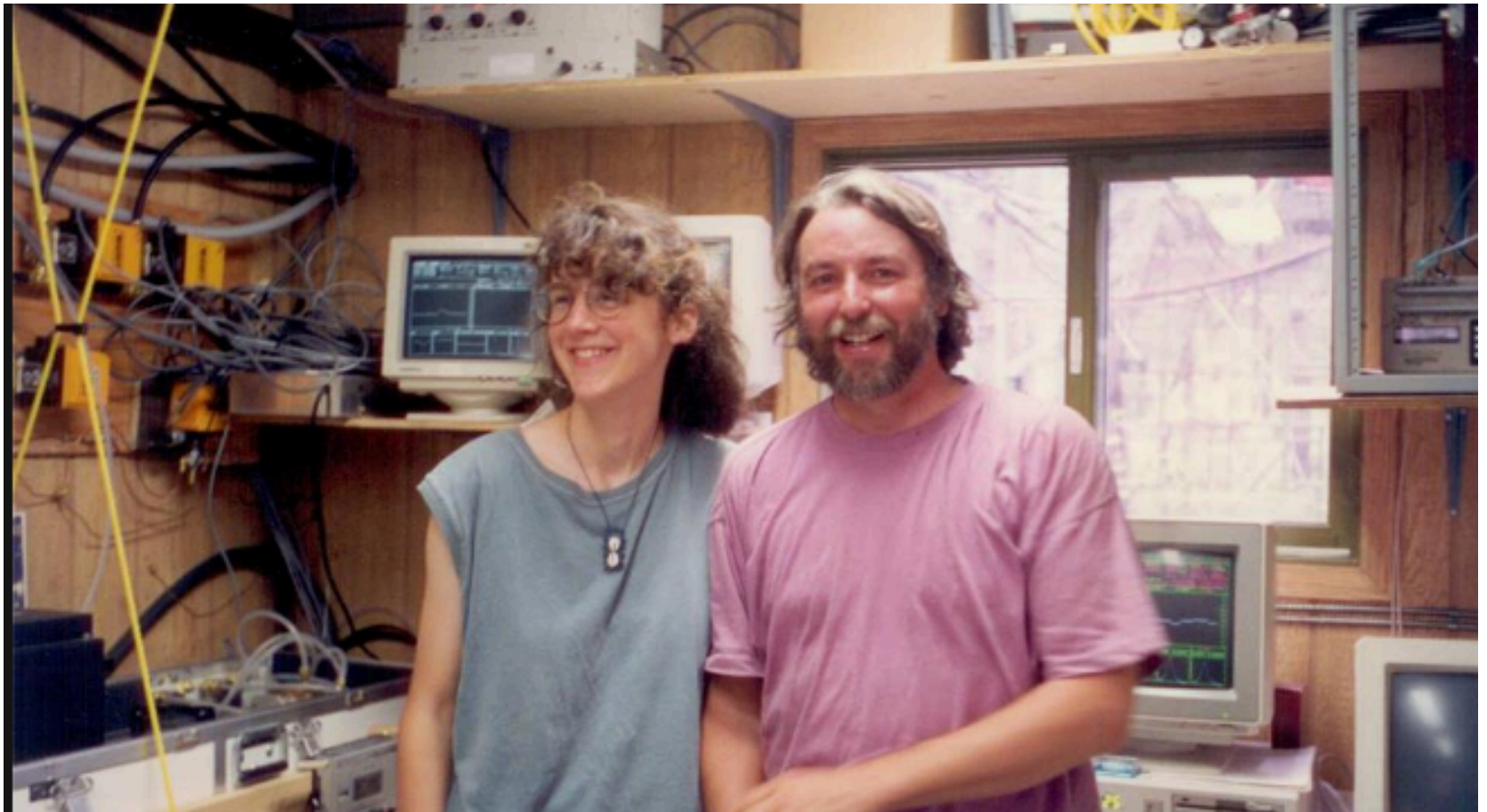
Sue Trumbore

Grant Edwards, Isobel Simpson, Ken King touring SSA-OBS photo E Pattey



Isobel Simpson and Grant Edwards measuring tiny bits of methane fluxes

Photo Elizabeth Pattey



BOREAS—Dennis Baldocci, Gerry St-Amour,
Mark Raymont, Sopic Hale, John Massheder

Photo Elizabeth Pattey



BOREAS--John Norman, pretty well protected against bugs, measuring soil respiration

photo Elizabeth Pattey



BOREAS NSA Fen--Carla Evans, Dennis Jelenski, Fred Huemmrich



BOREAS--Paul Jarvis, Chris Vogel, Dennis Baldocci serving up the dogs

Photo Elizabeth Pattey





SSA
OBS



SSA
OPS



Down
time in
Waskesiu

Back rub
congo line



Dave Billesbach. Carla Evans. Rob Clement. Sandra Shussell. Dave Valentine. Steve Scott. John Massheder



SSA OPS

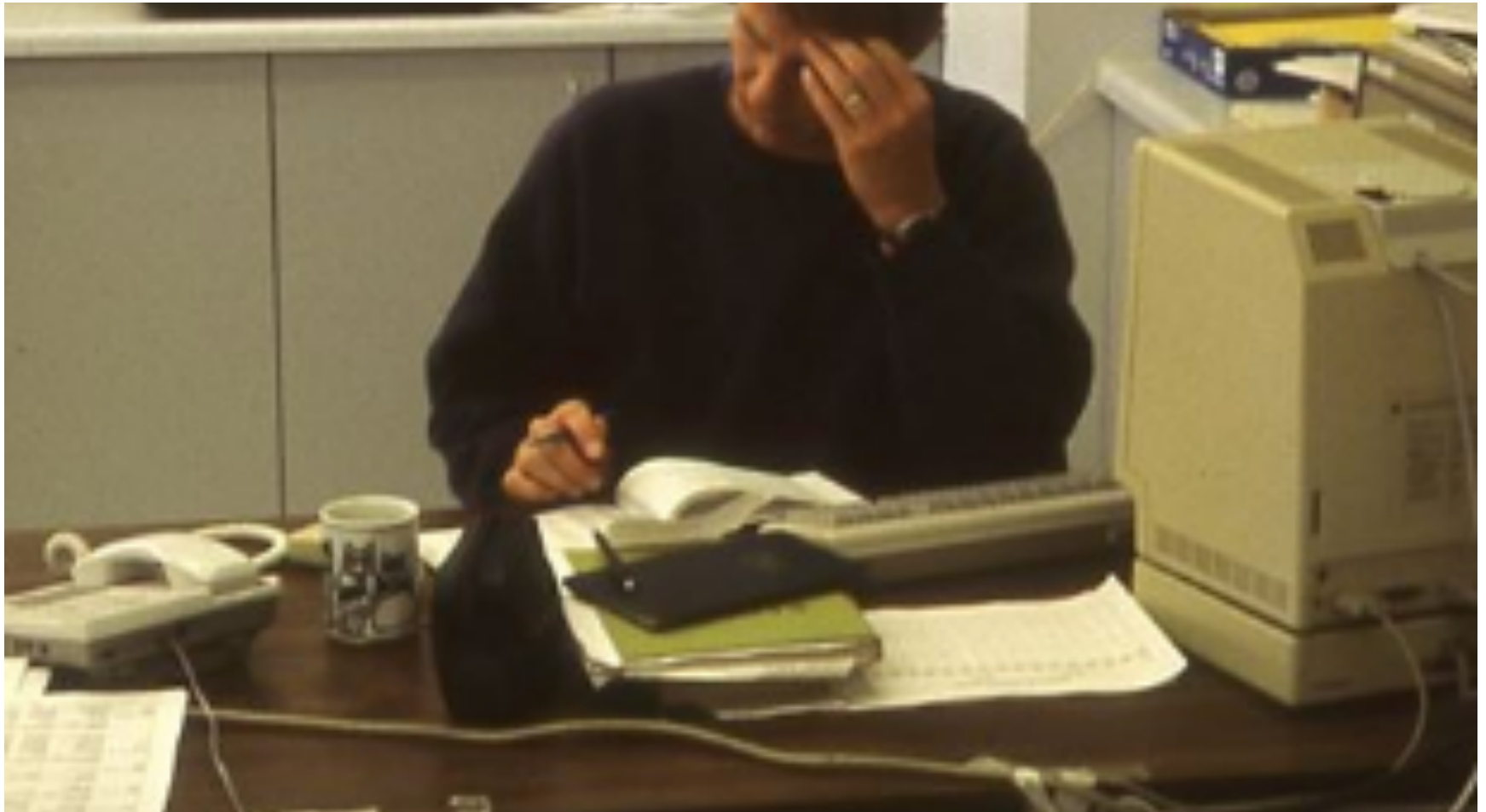
Carla Evans

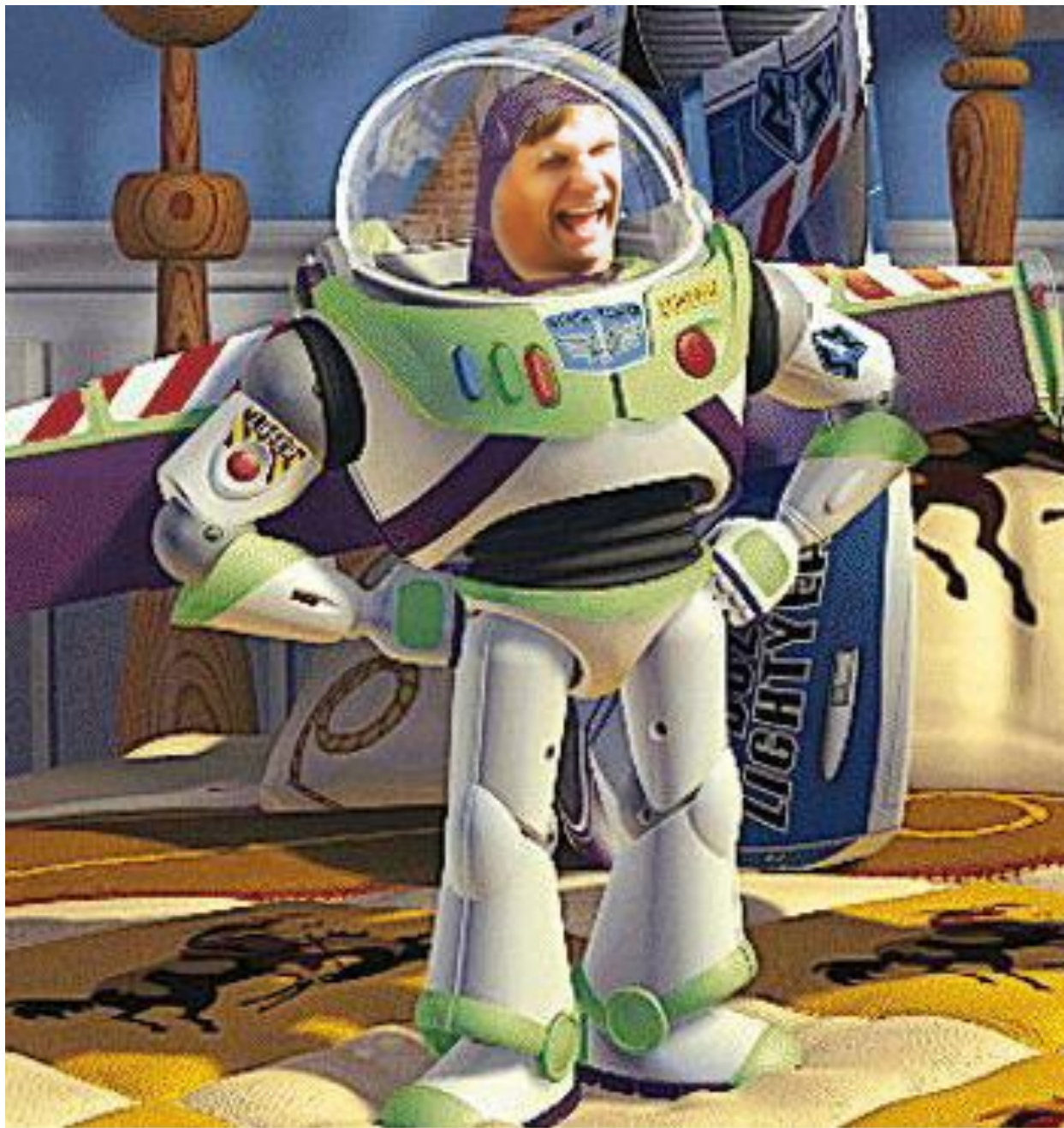
Grad Student

Tracy Twine

Piers in BOREAS NSA ops

Photo Fred Huemmrich





FIFE and
BOREAS
sent Piers
screaming
into
outerspace

Buzz Sellers... Space Ranger