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Supplement of

The human side of geoscientists: comparing geoscientists' and non-geoscientists' cognitive and affective responses to geology

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Subsurface

*Please sketch the ground under your feet down to any depth
within the Earth/beneath the ground*

SKETCH
PLEASE STAY INSIDE THE BOX! = FAULTS. = KARST / CAVERNOUS
GROUNDWATER SYSTEMS.

Expert

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

Expert

SKETCH

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

Expert

Expert

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

PLEASE STAY INSIDE THE BOX!

Expert

Expert

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

1a. How realistic do you find your sketch? Please circle the number...

Expert

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

Expert

Expert

Expert

Expert

↓ Ceramic tile 5mm
→ Concrete 150mm
→ Clay, Soil, Stone 450mm.
→ Stone, Rock, Clay 2m.
?
?
?
?

Non-expert

Sandstone

Shale

Sandstone

Non-expert

Non-expert

sketch

PLEASE STAY INSIDE THE BOX!

CONCRETE FLOOR
THIN SLATE

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

sketch

(metre/centimetre/kilometre etc.) in your

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

features you are drawing in an appropriate unit (m/cm/Km etc) in your sketch:

1a. How realistic do you find...

Non-expert

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

Non-expert

sketch

PLEASE STAY INSIDE THE BOX!

CONCRETE FLOOR
THIN SLATE

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

1a. How realistic do you think...

Non-expert

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

1a. How realistic is the scene?

PLEASE STAY INSIDE THE BOX!

Non-expert

Sketch

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Sandstone

Shale

Sandstone

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

1a. How realistic do you find your sketch? Please circle the number that best describes your response.

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

... that more closely represents your

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

~~(A)~~
~~(B)~~

(C)

—

(A) TILES 50mm

(B) CONCRETE 150mm

(C) LIMESTONE varies

1m to 100m +

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Layering
of
rock
on
this
side
of
cliff
almost

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

Drilling

Imagine a company is interested in drilling a hole in the ground through the rock in Co. Clare. Please sketch what the drilling process would look like

Expert

PLEASE STAY INSIDE THE BOX!

Expert

Expert

PLEASE STAY INSIDE THE BOX!

2a. How realistic do you find your sketch? Please circle a number from 1 to 5.

Expert

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

2a. How realistic do you find your sketch to be?

Expert

Expert

... that more closely represents your

the real length of the features you are drawing in an appropriate unit (m/cm/mm etc).

Expert

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

Expert

✓ in appropriate and potential stop

Expert

Expert

PLEASE STAY INSIDE THE BOX!

Expert

20. How would the

PLEASE STAY INSIDE THE BOX!

Expert

3a How realistic do you find your sketch?

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

Expert

25. How is the drilling rig controlled?

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

Expert

2a. How realistic do you find your sketch? Please circle the number that best describes your response.

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

Expert

Expert

Non-expert

Non-expert

Non-expert

1. DRILL HOLE INSIDE THE BOX.

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

000001

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

2a. How realistic do you find ...

PLEASE STAY INSIDE THE BOX!

Non-expert

2a. How realistic do you find your sketch to be?

PLEASE STAY INSIDE THE BOX!

Non-expert

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

Non-expert

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

3a. How realistic do you find your sketch? Please ...

PLEASE STAY INSIDE THE BOX!

1M

Non-expert

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

2a. How realistic do you find your sketch? Please circle the number 1 to 5.

sketch

...metre etc.) in your

PLEASE STAY INSIDE THE BOX!

2a. How realistic do you find your sketch to be?

Non-expert

PLEASE STAY INSIDE THE BOX!

Small US equipment
used to drill water
(A lorry with drill on back)

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

2a. How realistic do you find your sketch? Please circle the number that more closely represents your response.

PLEASE STAY INSIDE THE BOX!

Non-exp

PLEASE STAY INSIDE THE BOX!

2a. How realistic do you find your sketch? Please circle the number that more closely represents your

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

Non-expert

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

Rock, Clay, Soil 3.5 M.

Rock Clay 6. M

Rock 30 M

Rock Stone Granite mixed with
oil residue 30m

Oil.

Mining/quarrying

- *Imagine that a mining or quarrying company has come to County Clare. Please sketch what the quarrying or mining activity would look like*

Expert

Expert

Expert

Expert

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

Expert

Expert

drawing in an appropriate unit (micrometre etc).

Expert

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

Expert

3a. How realistic do you find your sketch? Please state ...

INSIDE THE BOX!

3a. How realistic do you find your sketch? Please circle a

Expert

Expert

Expert

Expert

PLEASE STAY INSIDE THE BOX

Expert

A hand-drawn sketch of a landscape. On the left, there is a tall, rectangular structure with a textured surface, possibly a wall or a cliff. Below it, a small, rounded object with two wheels is on a path. The path leads to a small, rectangular structure with a triangular roof, possibly a house or a shed. To the right of this structure is another tall, rectangular structure with a textured surface. The entire scene is enclosed in a simple rectangular border.

Expert

Expert

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

① Outcrop traces/Survey → ② Petrographic Test

in the field

volume ratios / samples

③ Mapping Areas

to make models of things etc

④ Extraction

to have a sample!

No laughing!
haha

Expert

PLEASE STAY INSIDE THE BOX! DOOLIN SEAT

Non-expert

Non-expert

Non-expert

PLEASE STAY INSIDE THE BOX!

cannot envisage this enough to
draw . Sorry

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

Non-expert

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

Non-expert

3a. How realistic do you find your sketch to be?

PLEASE STAY INSIDE THE BOX!

Non-expert

3a. How realistic do you find your sketch? Please circle "1" (not realistic) or "5" (very realistic).

PLEASE STAY INSIDE THE BOX!

Non-expert

3a. How realistic do you think...

PLEASE STAY INSIDE THE BOX!

OPEN CAST MINING

START WITH DIGGING A LARGE
HOLE THEN KEEP GOING ROUND
AND ROUND TO MAKE IT BIGGER
AND DEEPER

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

3a. How realistic do you find using this type of drawing?

PLEASE STAY INSIDE THE BOX!

Wealons or Ryan's Quarry
ensis

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE FENCE

SHALE - (EXCAVATOR) = TRUCKS -

LIME STONE - BLASTING ROCK BROKEN

TRUCKS ..

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

Non-expert

PLEASE STAY INSIDE THE BOX!

3a. How realistic do you find your sketch? Please circle the number that best represents your opinion:

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Pollution

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

2.

Non-expert

PLEASE STAY INSIDE THE BOX:

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

impact of disease you

Cliffs

Rubble - debris
machinery abandoned

Water:
danger.

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

3a. How realistic do you find your sketch? Please circle the

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX! Doonin SENT

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

Non-expert

PLEASE STAY INSIDE THE BOX!

...metre/kilometre etc.) in your

Non-expert

PLEASE STAY INSIDE THE BOX!

OPEN Quarry

Non-expert

3a. How realistic do you find your sketch? Please state a

Non-expert

Flooding

- *Imagine that a field or land area in County Clare is currently flooded. Please sketch what the flooding would look like*

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX! IN ACH RIVER.

CARRON

KILKENNY

4a. How realistic do you find your sketch? Please circle the number that more closely represents your opinion:

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

Non-expert

PLEASE STAY INSIDE THE BOX!

Fence
under
water

Clare
Has
a lot
of
fun long

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

4a. How realistic do you find your sketch?

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

4a How realistic do you find your sketch? Please sketch it on the box below.

dangerous.
bad for animals,
farmers,
visitors,
trees

fired
↑
mud

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

Non-expert

Non-expert

Non-expert

PLEASE STAY INSIDE THE BOX!

SEA LV.
DRAINAGE
FROM
ENGLAND

Non-expert

STAY INSIDE THE BOX!

... in your

4a. How realistic do you find your sketch? Please circle the number
opinion:

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

later
line

Non-expert

Non-expert

Non-expert

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

PLEASE STAY INSIDE THE BOX!

Non-expert

🔊 PLEASE STAY INSIDE THE BOX!

Non-expert

Non-expert

Non-expert

Non-expert

Expert

Expert

PLEASE STAY INSIDE THE BOX!

Expert

Expert

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

Expert

Expert

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

Flooded field

water.

water into road

road verge

Expert

4a How realistic do you find your sketch on a scale from 1 to 5? Please tick the relevant number:

Expert

Expert

Expert

PLEASE STAY INSIDE THE BOX!

Expert

Expert

Expert

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

Expert

PLEASE STAY INSIDE THE BOX!

fields/roads flooded
roads closed.
farmers struggling to feed.

Expert

Expert