

# KLAMATH HALL: IT'S ELECTRIC!

## ABSTRACT:

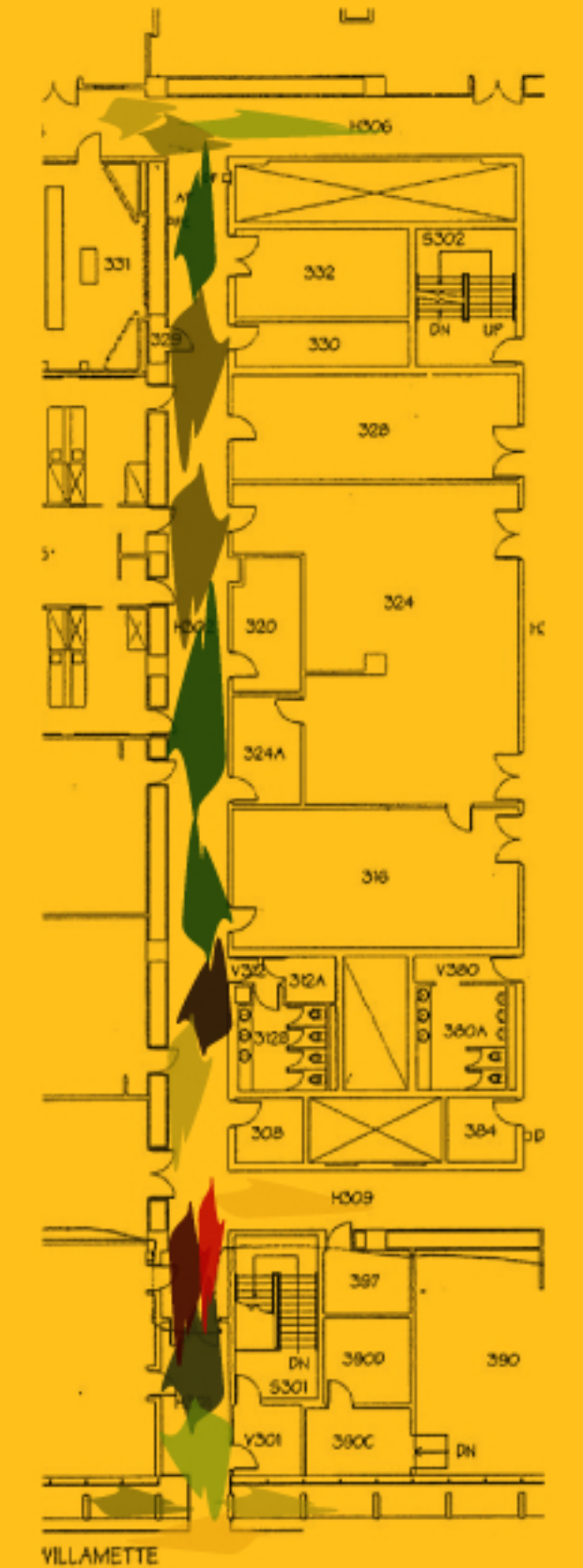
A SWEEPING WIND CONTINUALLY WHIPS THROUGH THE THIRD FLOOR HALLWAY OF KLAMATH HALL. THIS DESERVES ATTENTION - PERHAPS WE CAN USE THE WIND TO GENERATE ELECTRICITY.



## ENERGY PRODUCTION (DOORS OPEN)

PLACE ON MAP	HEIGHT ABOVE GROUND	WIND SPEED (MPH)	AVERAGE VOLTAGE (V)	AVERAGE CURRENT (A)	POWER (W)	POWER (Kw)	AVERAGE HOURS PER DAY	ENERGY PRODUCTION PER DAY (kWh)	ENERGY PRODUCTION PER YEAR IN kWh
6	2 ft.	5.12	0.013	0.005	$6.5 \times 10^{-5}$	$6.5 \times 10^{-8}$	10	$6.5 \times 10^{-7}$	$2.4 \times 10^{-4}$
	4 ft.	5.12	0.012	0.004	$4.8 \times 10^{-5}$	$4.8 \times 10^{-8}$	10	$4.8 \times 10^{-7}$	$1.8 \times 10^{-4}$
7	2 ft.	5.06	0.013	0.005	$6.5 \times 10^{-5}$	$6.5 \times 10^{-8}$	10	$6.5 \times 10^{-7}$	$2.4 \times 10^{-4}$
	4 ft.	5.54	0.013	0.006	$7.8 \times 10^{-5}$	$7.8 \times 10^{-8}$	10	$7.8 \times 10^{-7}$	$2.8 \times 10^{-4}$
10	2 ft.	4.60	0.011	0.004	$4.4 \times 10^{-5}$	$4.4 \times 10^{-8}$	10	$4.4 \times 10^{-7}$	$1.6 \times 10^{-4}$
	4 ft.	4.17	0.013	0.004	$5.2 \times 10^{-5}$	$5.2 \times 10^{-8}$	10	$5.2 \times 10^{-7}$	$1.9 \times 10^{-4}$
12	8 ft.	4.39	0.004	0.003	$1.2 \times 10^{-5}$	$1.2 \times 10^{-8}$	10	$1.2 \times 10^{-7}$	$4.4 \times 10^{-5}$

Monday February 18, 2008  
12:1pm  
(some doors are open)  
wind speed  
4 feet from the floor



## ENERGY PRODUCTION (DOORS CLOSED)

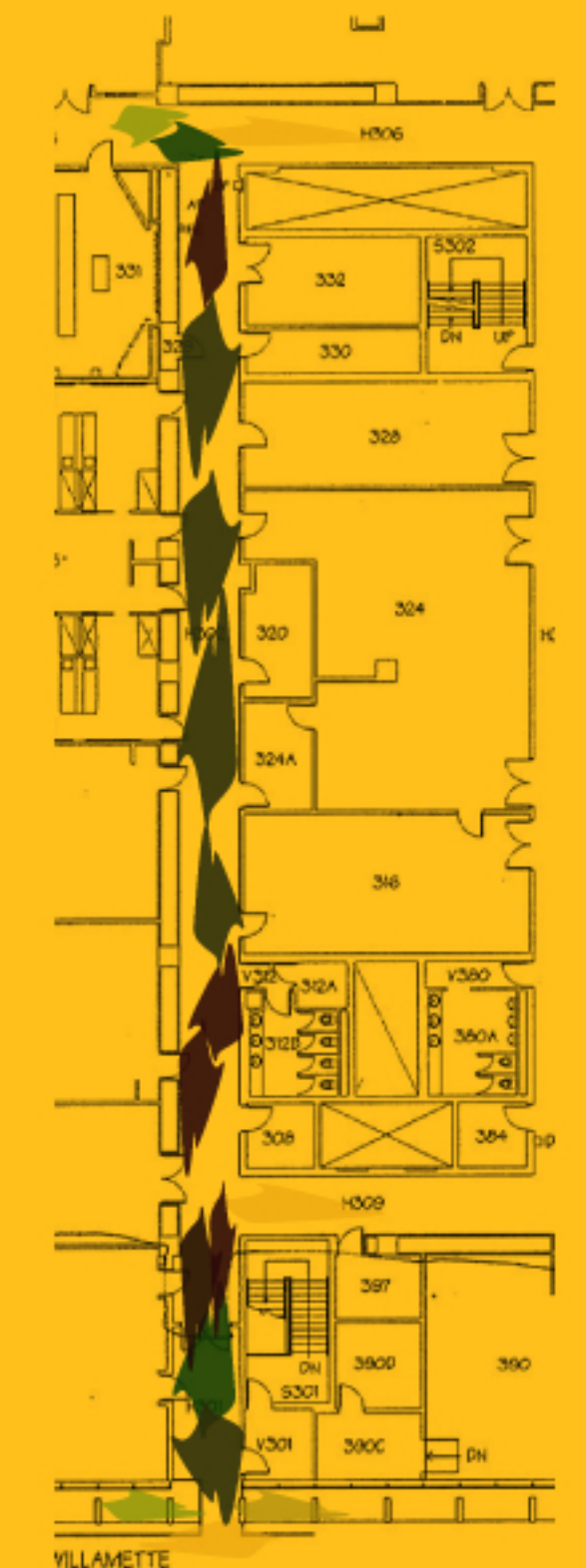
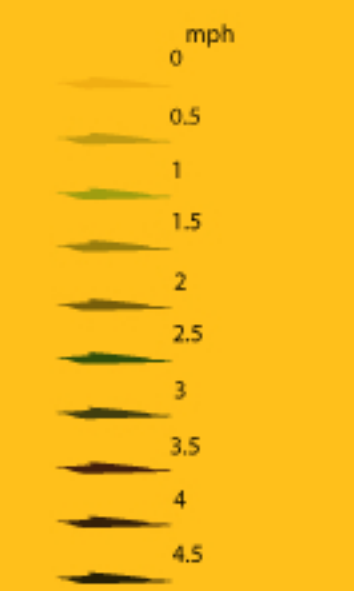
PLACE ON MAP	HEIGHT ABOVE GROUND	WIND SPEED (MPH)	AVERAGE VOLTAGE (V)	AVERAGE CURRENT (A)	POWER (W)	POWER (Kw)	AVERAGE HOURS PER DAY	ENERGY PRODUCTION PER DAY (kWh)	ENERGY PRODUCTION PER YEAR IN kWh
6	2 ft.	4.45	0.010	0.004	$4.0 \times 10^{-5}$	$4.0 \times 10^{-8}$	14	$5.6 \times 10^{-7}$	$2.0 \times 10^{-4}$
	4 ft.	4.02	0.011	0.004	$4.4 \times 10^{-5}$	$4.4 \times 10^{-8}$	14	$6.2 \times 10^{-7}$	$2.3 \times 10^{-4}$
7	2 ft.	3.33	0.008	0.003	$2.4 \times 10^{-5}$	$2.4 \times 10^{-8}$	14	$3.4 \times 10^{-7}$	$1.2 \times 10^{-4}$
	4 ft.	3.50	0.009	0.004	$3.6 \times 10^{-5}$	$3.6 \times 10^{-8}$	14	$5.0 \times 10^{-7}$	$1.8 \times 10^{-4}$
10	2 ft.	4.03	0.011	0.004	$4.4 \times 10^{-5}$	$4.4 \times 10^{-8}$	14	$6.2 \times 10^{-7}$	$2.2 \times 10^{-4}$
	4 ft.	3.76	0.010	0.003	$3.0 \times 10^{-5}$	$3.0 \times 10^{-8}$	14	$4.2 \times 10^{-7}$	$1.5 \times 10^{-4}$
12	8 ft.	2.15	0.002	0.002	$4.0 \times 10^{-6}$	$1.2 \times 10^{-9}$	14	$5.6 \times 10^{-8}$	$2.0 \times 10^{-5}$

## CONCLUSION:

WITH OUR DEVICE, IT WOULD TAKE 130 AND A HALF YEARS TO POWER A 60 W LIGHT BULB; THIS IS IMPRACTICAL. WE HYPOTHESIZED CORRECTLY BUT DID NOT GET A DESIRABLE RESULT. FUTURE EXPERIMENTS WOULD PROBABLY NOT FAIR ANY BETTER - EVEN WITH BETTER EQUIPMENT..



Saturday February 16, 2008  
12:1pm  
(no doors are open)  
wind speed  
4 feet from the floor



## HYPOTHESIS:

THE AIR SPEED THROUGH THE THIRD FLOOR HALLWAY IN KLAMATH HALL FLOWS FAST ENOUGH TO POWER A 60 W LIGHT BULB.

