

# MID-CENTURY MODERN ARCHITECTURE IN WASHINGTON STATE



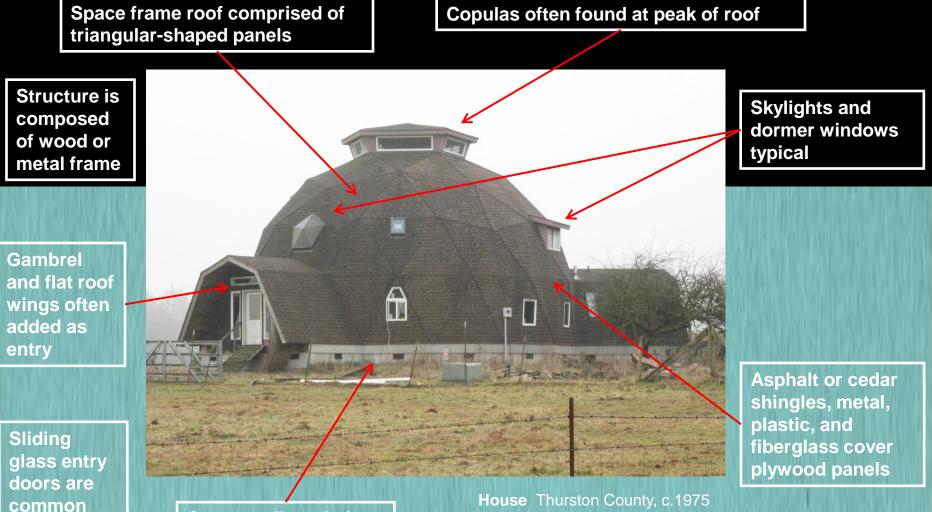
MICHAEL HOUSER State Architectural Historian DAHP - Olympia, WA

June 2014



# **GEODESIC DOME**

1960-Present

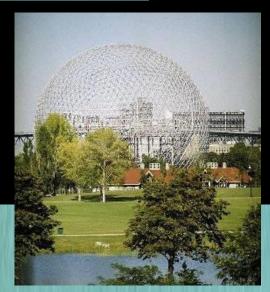


**Concrete Foundation** 

House Thurston County, c.1975



## **GEODESIC DOME** History





Epcot Center Buckminster Fuller, Orlando, Florida, 1967

Ford Rotunda Dome **Buckminster** Fuller, Detroit, Michigan, 1953

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CATHEDRALIT P. 0. BOX 1982, SANTA CRUZ, C

US Pavilion at Expo '67 Buckminster Fuller, Montreal, Canada, 1967

### Buckminster Fuller to Speak At Environmental Conference

R. Buckminster Fuller, noted philosopher, engineer and inventor of the goedesic and inventor of the goedesic dome, will speak Saturday to conclude a three-day pro-gram on the environment at Inglemoor High School, 15400 Simonds Road N. E., Boih-

R. BUCKMINSTER FULLER Brock Evans, a lawyer who

eil main koat it is, boir Ventional ideas on the envi-ronment have won him fame, will speak on "Our p-future Environment" at 7 p. m. Saturday. His speech will be open to the public. Fuller designed, the done busing the Units of Sam at Essay 07 in Montreal. He has environed domid cities "Environmental Crisis in the Pacific Northwest" at 8:15 has envisioned domed cities p.m. His presentation will

cuss "Pepulation versus Ecology: Facts of Life in a Closed System" at 7 p. m. State Senator Joel Pritchard and County Councilman Edand County Constantial Ed-ward Heavey will speak on "Effecting Legislative Ac-tion on Environmental Prob-lems" at 8:15 p.m. A student film will follow. Saturday's program will open at 1 p. m. with a pres-

entation titled "Av iding entraction utica "Avoining Terracide" by Dr. William Houff. A panel discussion on "Industry and Poliution Con-trol" is scheduled at 1:30 p. represents conservation groups, will speak on the

"Ronalation versus

ni. At 2:30 p. m., Dr. Arthur Kruckeberg will speak on "Do We Have the Right to Pollutte?" A panel discus-sion, "Several Views on Pol-hutton," will follow at 3. A has envisioned domid cities Public rotativest at sub "Do We free the Eight to the there will be the prediction of the transfer of the

### **GEODESIC BUILDING CONCEPT**



CatherDome Book 2, 1971

Tacoma Dome Tacoma. 1981-83 Dome Book 2 197

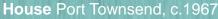




## **GEODESIC DOME**

### **Residential Examples**







House Moses Lake, c.1982



House Clarkston, c.1970



House Lacey, c.1982



#### House Eatonville, c.1980



## **GEODESIC DOME**

1<sup>st</sup> of its kind approved by King County Building Department

### **Steve & Janet Bondelid House**





8656 ne 170<sup>th</sup> St, Bothell, 1974

#### A brown golf ball? A wooden egg? Dome home rouses curiosity

page 53.

#### By PAIR ANDREWS Suburban Writer

BOTHELL --- "It tooks like a buge brows goll ball," said a duffer at the Wayne Golf Course here. "It looks like a big woodin agg," said a waitress at a Bothell short-order restaurant. Few who see it can resist com-

menting on the geodesic dome being built by Stève and Janet Bondelid near the banks of the Sammamish

"We still get asked a lot, "What's gonna be, what's it gonna be?" " id Bondelid, who feels that by now it should be obvious that the struc-ture will be the couple's new home.

AIDED BY relatives and friends, AlbCD BT realistes and intends, the Bondidis have been working on the dome since last April. They have, managed to nearly complete the ex-terior despile frequent interruptions from curiosity-seekers and assorted dome fracts. dome freaks.

dome freeks. The Bondelide might have guessed that the dome would draw some no-tice when they discovered that it was the first of its type ever ap-proved by the King Courty Building Department. The grotoesie domo in't the first to be built in the cruse ty. Mrs. Bondelid said, but it is the first with share detailed and works-the enough to be approved by the Theory Department.

Sandarg Department. The couple decided to boild the structure after seeing photographs of goodesic domes in a magniter last year. "We'd looked at a lot of floor plans, but nothing struck us as ary interesting until we saw these es," Mrs. Bondelid said.

FROM THERE, they purchased a copy of "Dome Book Z." a papey-back compilation of various dome designs edited by Lloyd Kahn, and developed plans for their bome

"It's a good structure to build, be-"It's a good structure to build, be-cense it's very strong, and you get a fot of cobic space for the size of the enclosure." Mrs. Bondelid snid. To test just how strong the done was, the couple soldered tagether a 14-gauge copper-wire -model of the structure, a foot in diameter.

"Steve found he could sit on it," Mrs. Boudelid said.

"Serve bands do otra di no it." The genodicatio come, developed by Buckmatter Fuller, consista d'a ar-tere of traingis and sub-traights, traingis and sub-traights, traingis from distributing weight on any part of its surface throughout the surface throughout the form of the surface throughout the surface throughout the surface the surface throughout the surface the levels - a garage and havement be-bies and kinetin, bulkroom, hed-rooms and surface living room above.

A LOT OF window space is pro-vided for, including a pentagonal skylight at the top of the doms and a picture window overlooking the river. There also will be star-shaped skylights shoping down from the top of the dome.

interior. About 7.306 cedar shakes are being used to cover the exterior. The round basement windows ac-tually are old picture-tube covers which Bondelid, a television repair-man, saved. "He thought maybe

day," Mrs. Bondelid said. Neither she nor her husband had done much construction work before building the dome. Their combined background included building a borse stall and putting together a dog house. "My dad and family have sort of

"My dad and family have sort of always done things by conselves, so I wasn't really afraid to techle cometing like this," Mrs. Bondelid said. Their construction techniques so far have included quite a bit of improvisation — "your imagination is taxed heavily building a dome." Bondelid said.

Rondelid suid. ALI '00.0. its Rondelids figure the does by the line they are fully moved in most spoing. They also are work of their town writing as the county code premise. 'The Rondeline, their results are work of their town writing as the county code premise. 'The Rondeline, their results are will upper of as the structure near to the state of the structure near part from a project county was to see it, well just the sub-two results are the structure as the synchronic struc-ture to passers by which the struc-ture to passers by will be also also be the structure of the struc-ture to passers by will be also be

of the dome. When it is finished, the dome also will have a loft, a sun deck, a hang-ing firreplace and a circular stall-uray leading up from the houre-level entrance. The dame will be inse-inted with polyarethore from, which the couple plans to paint for the

interior



Steve Bondelia checked for loose shingles





## **GEODESIC DOME** Commercial Examples



#### Deitrich Activity Center Walla Walla, 1977

Building Milton, c.1975



Cathedralite Office Tacoma, 1978

**Tacoma Dome** Tacoma, 1981-83





## **SHED** 1960-1985

**Box-Like Asymmetrical Form** 

Multiple Single-Slope Roofs in different and same directions

Simple, no-overhang eave and rake trim

Varied window sizes and shapes

Vertical, diagonal, shingle and T-1-11 Siding

Recessed or downplayed entry

Typically 1 to 1 <sup>1</sup>/<sub>2</sub> stories tall