
 alpy $10 \%$ the German pavilion. this can be mata whthout forgetting
 the U.O.A. The Otto tent looks keen, bxave and potemtial while the Tuller sphere, some earlier difloulties with the weldine now lorgotten, looks sophistreated. IFal, and sultably selfassuxed to represent kmerican knowhow.

The Gexman pavilion will be the f1, reb ragaet for most architecturally involved visiters. Lonc berore Jxpo opened it was woll known by fllustretions of the model. It is the biecest a demonetration get of the axtraominarily pereonel relationmhip with tomsile construction ajoyed by Dr. Otto.

The pllersum will approach the bullelng through a forest of antle geometry (Germans is on the fas bank of the 1aland). with
 from is distunce. Yet as they mudeny oome elose by it at a turn 1n. the rack ther may be fox some of them a semse of being let downe Tho fixst igiresgion is of u duinutive scale。 The advance pletures of the model and gone of the announced emematons -

Sox fintance, the helght of the highoat masts 130 reet -100 to expectations of a much biger visual treat. In the event one actualy looks down from the approsok road on to the lower edges of the tent and because of the dieline of the site away Erom the road no craning is nocesaary to see the highest pirnacio. Ther the innshes are sometimen uncussed to the point of looking teatative and incomplete. The meeping steen mesh which is the extextor surpace and the suppost. Por the man plastic membrane, which hange about a poot below the steel. has the hoaest unprecistom of any reknorcing that nowmelly expects to ba covared by concrete. It exhibits joints and alighty erretic curves. The plastic membran has beon made with a similar sort of rustic disdain for an elogant plainh. the wide dark seams between the strips of the transhucent sheeting were allowed to occur wherever they wantod to, and they bear no appaxent relationship to the equally etrong overlaid pattoma formed by. the hundreds of points where hangera from the steel运解 penetrute and gupport the membrane. Each of there points is marked by a loadmareadug quatreros1 rosetto sbout two foet acromb. In places also there are puckers in tho plastico so thet all in all the sursace of the great convoluted canopy ban from below something of the look of a giadtmeste romempttern wall paper stuck to a celline in haste by father.

At Interbau In Bemin juat ton jears ago a Laxge part of the Visumi dalight to be Iound in Fsel Otto sitwiated, bulging tents over the refreshment section came from the puxity of corm revoaled by the surface of the white canvas membranes. sans ateel mesh, trimly seamed like racing salls. Was the scfele of the Expo tent too b1g to permit a sixgla memrane of canvas to do the job? The answer is that it was not too bie for canvas in ralr, weather. but Montreal's snow might have loaded it to the cround. All the steel mask and roanttes unguestionably axe needed. Nevertholesm. especially round the low perineter where no great spans are encountered. they seem to be making a mountain out of a molehill of a problem, a unacceseary tomdo in providing fainly minimal shoiter against Montreal's often fearnome wasther. Thern iw Just a sugcestion that they are demonstrating a principle which in really more applicable to much biger problemb. It is also clear irom a purely artiatic atandpoint that either the steel mesh ox the membrame alone, or better stlll a seamless miracie cabric all in one piece. would do more justice to the magnisicomt form of the butlang.

For it is a macnificent tent. The complaints above have boen recarded largely to acknowledge lay criticism. When prefudsced ayen grow accustomed to Fatheres wall-papering job, the logic, orderliness and conaisteney of the dways erothing desiga is appreciated.

He axe fomillax with the otto Ele of torturina a contimuous mombrane into tension by alternatoly proping it up on ponta
 poets and sumels of the Expo temt are gutte arbstraxily tryegulax in hatent and digponition. In eact they obey a sort of free band geometrical digetpline. rous main outwasde in pram. tivted mests form a rough gquare h The shoreost mast is on your left as you onter and the kinghty of phe other whroe grow by regular gtopa taken clockwise a secone mallor square extende diagonally out of the loweat corner by the addition extermadiy o around a theatro area on three more
 aupports what amounts to a separats maall teat over a play arca, commectea by a manrow neck of the plastic nombrane to the main tomb.

Arouna all this the perimeter dine dipa whth the guy asbles and retreats 1 nto baym.betwean them. giving the overal plom-shans something of the look of a map - a 1Heness mhick a Sen sumpratom sabt German eyes wore gutck to noter Whys 14 was a map of HAtlex's Gexmany Complete with Denmaris (the semiodetached terat on tho 1ghand) and. With a whde stretch of inflamed imagination, the mode of fath Germany!

Eolitics aside, the pavilion may have heat problems as the Montreal summer warms up. Erei Otto, judging from his experience of Montreal's 1966 summer, thinks not. He is providiag artificial cooling only in the comparatively 1solated theatres and the restaurant, and in a pit of cooled ais round the central pool. Otherwise he is relying on cross-ventilation. Around the perineter the plastic membrane hangs as a llap to the ground, and it will be raised on hot days I to let the breezes through. The cost of alrconditioning the whole of the exveloped space baulked even lest Gexmeny . Thus the design is Ifterally as well as figurativeIy open-ended. It could be expanded to cover the whole of Expo site? if requested, without losing its integrity, unity or composure.

The casualness of the mesh and membrane misture, the tilt of the masts agafnst the tensionis and the openendedness, all contribute to a fainlike character that is thoroughly

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``` appropriate, despite Expo's pretensions to seriousness. The authorities asked parilion designers specifically for architecture of an unpamiliar mien. In many other pavilions they were presented with shapes much more unfamiliar than a tent. Iet these others, which are often quite frantic, still look more ordinaxy than an otto tent. The obviously temporary quality is also very fitting for a show which will last only sik months. All the pieces ware made in Germany, including
 pavilion has done its Expo jow it can be dismantled. wollea upo and returned to Germany. There is something disturbing acturily acstheticully diaturbiae - aboub somebther pavilioms dome in masive brick and concrete for oniy six months life。 Alinost bofore tholy mortar had set. three months before they were been by the public, tendens Were belug called for thatr complition.

The pride of the German gavilion is of course the interion space. It is a big volume lofty under the posts but sucised dowawards where the big ofrecentre cunnel difives into a decorative pool. It chanses continuoumly and exgagingly as the visitor walk anong the exhibtis on the many stepped plat orms. These ase sometimes elevated on fecano-live Rrames and somethes droi to the ground, as by the central pool. Near the top of each mast a pals of guy cables 1 s pulled apart by the teustox. and trensparert sheoting repaces tho tramslucent plamtic in the oyomshape so croated, allowigg a blursy wiew of the aky.

Then suddeny there comen a mpatial murprise. Partly outcoors and partly under the extended corner tent axe two dowem, housing a small olnema and an uppermovel viewing gallery respectively. These are dellberately complementary structures
to the temt. Each Gome 1 made of 11 gh thember battens pimod
 - humg. The ppecing of tho comperamive batterna matches the spactur of the tenclio oables in the teat. "I an a student" gref otto memamied when he posnted this ort. "Y am Learning. I wanted to see what happens when the two matched Btucturas mensile snd comprenshva - come together ix the O20. butlding "

Ho has loarmt and demonstrewed gutte a let more about bemsion in this bigeest of his works. The prehoraila details at cablo oncs are especially aotevoxthy. But has Dr. Otte gone now as sar as he can on this lime pening the armival of tho mimaalo membrane?```

