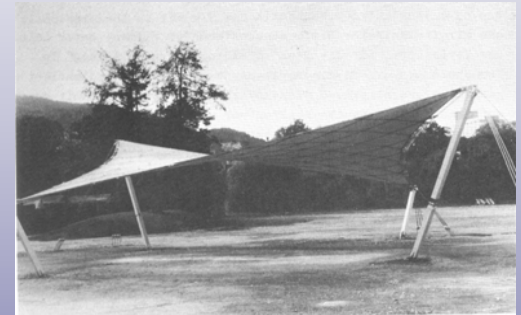


# Welcome to JJJ-Consult Dr.techn. Jens Jacob Jensen AS



JJJ-Consult Dr.techn. Jens Jacob Jensen AS does technical advisory services, consulting services and R&D in the areas structural engineering , ICT and learning.

# About JJJ Consult AS

## The Company

JJJ-Consult Dr.techn. Jens Jacob Jensen AS does technical advisory services, consulting services and R&D in the areas structural engineering , ICT and learning. The company has in-house competence, or has associates, that can provide advisory consulting services. The company is situated in Trondheim.

## Business Concept

Our business concept is to develop, offer and sell technical assistance within a limited sector of the field construction technology, technical assistance for planning and implementing R&D projects, promotion and dissemination of research results. We also do educational consulting and produce technical information and learning materials particularly adapted to children and adolescents.

## Addresses

Company name:	<b>JJJ Consult Dr.techn. Jens Jacob Jensen AS</b>
Organisation number:	982 497 035
Postal address:	Bergittavegen 13, 7021 Trondheim
Telephone:	(+47) 73 52 25 06
E-mail:	<a href="mailto:jjj@jjjcon.no">jjj@jjjcon.no</a>
Company type:	Private limited company, Estd.: September 2000
Manager:	Dr.techn. <a href="#">Jens Jacob Jensen</a>

# Manager

**Name**

Jens Jacob Jensen

**Borne:**

1938

**Education:**

Dipl.Ing. ETH Zurich, Switzerland 1962

Dr.techn. NTH Trondheim, Norway 1972

**Experience:**

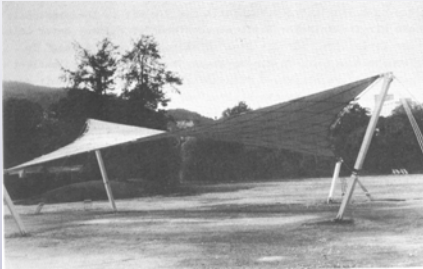
Structural design practice by contractors and consulting firms in Norway and abroad. Research and teaching experience by NTH, (NTNU), SINTEF, Norway.

**Specialities:**

Structural mechanics. Dynamic response. Design of concrete structures. High strength concrete. Concrete structures by transient loading (impact, explosions), fire and wind exposure. Tensile structures. Concrete bridges and marine structures. A great number of technical research reports and publications in international journals and conference proceedings. Member of NIF, NB, IABSE,

E-mail: [jjj@jjjcon.no](mailto:jjj@jjjcon.no)

# Products and Services



## Structural Engineering

*Technical assistance within a limited sector of the subject structural Engineering*

## R&D and Dissemination of R&D results

*Assistance in planning and implementing R&D projects*

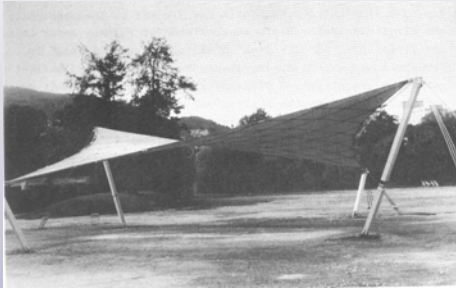
*Promotion and dissemination of research results for practical purposes*

## ICT and Learning

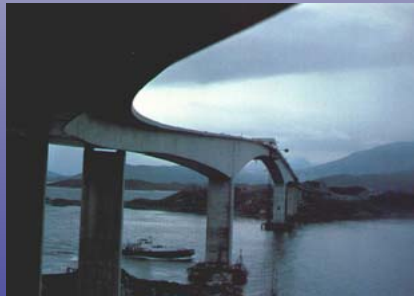
*Learning and educational consulting*

*Development of technical information and learning materials directed at children and adolescents*

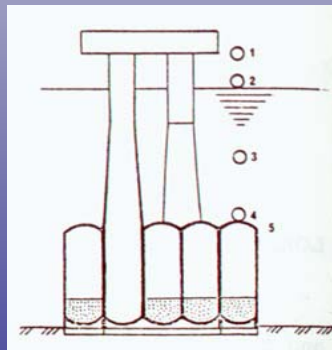
# Structural Engineering



Tensile structures



Bridges



Offshore structures

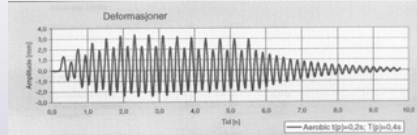
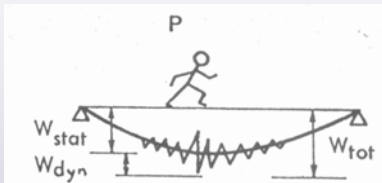
## ***Technical assistance within a limited sector of the subject structural Engineering***

For particular problems in the area structural engineering, where specialist knowledge is required, we offer services such as research and calculations.

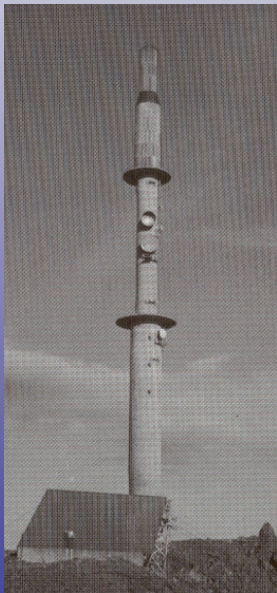
This includes special assignments in the fields vibrations, dynamics and accident prevention, with special reference to concrete structures such as industrial buildings, bridges, marine structures and fortifications.

Our services may be on the borderline between research and traditional consulting and may be relevant to builders and consulting engineers that do not have special competence in these areas.

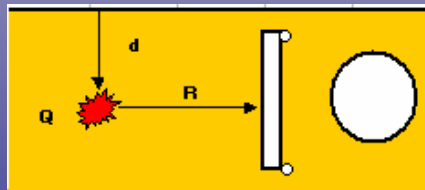
# Structural Engineering



Dynamic response, Vibrations



Towers



Fortifications

## References

Jensen, J.J. :

„Eine Statische und Dynamische Untersuchung der Seil und Membrantragwerke“, Report No 70-1. Division of Structural Mechanics, NTH, The University of Trondheim 1970.

Jensen, J.J

“Impact strength of Concrete coating on Pipelines” International Symposium on Offshore Structures, Rio de Janeiro 1979

Jensen, J,J; Folkestad, G

“Dynamic Behaviour of Transmission Towers-Field Measurements.” Conference on Design against Wind-induced Failure. Bristol 1984

FIP/CEB “High Strength Concrete, State of the Art Report” Published by Fédération Internationale de la Précontrainte August 1990.

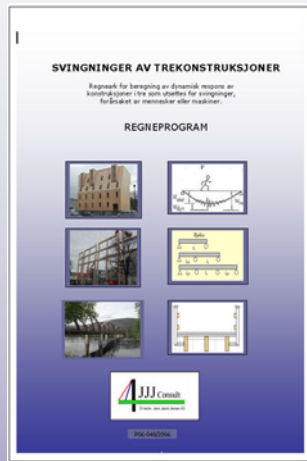
Jensen, J.J.

“Structural Aspects of High Strength Concretes. Case Studies of it Advantageous use in Important Structures.” ConTech'94. International Workshop on technology Transfer of New trends in Concrete. Barcelona Nov 1994

Jensen, J.J; Tomaszewicz,A; Markeset, G

“Impact Resistance of fibre Reinforced High Strength Concrete Slabs” Proceedings of the Second International Conference on Concrete under Severe Conditions , COSEC Tromsø 1998

# R&D and Dissemination of R&D results



## *Assistance in planning and implementing R&D projects*

We offer assistance in planning and executing research projects. This assistance can be offered to industrial partners and industry projects. Assistance can be tasks like professional planning, writing drafts or applications, doing secretarial work, technological-financial report writing, dissemination and implementation of results etc.

## *Promotion and dissemination of research results for practical purposes*

Our main goal is to promote research results in order for them to be put into practical use more quickly. On the basis of current issues in industry (e.g. production of concrete elements or synthetic materials) we will identify research results that can be utilised in practical dimensioning or for information purposes. We develop practical tools like guides, spreadsheets, reference works etc. to be distributed on digital media, e.g. CD-ROM.

Svingninger av Trekonstruksjoner

Konstruksjonsdata

System

Plate

Tverrsnitt

Flikant-tverrsnitt

Limtrebjelke

Log-tverrsnitt

Egendet bjelke

Fritt opplagt Plate

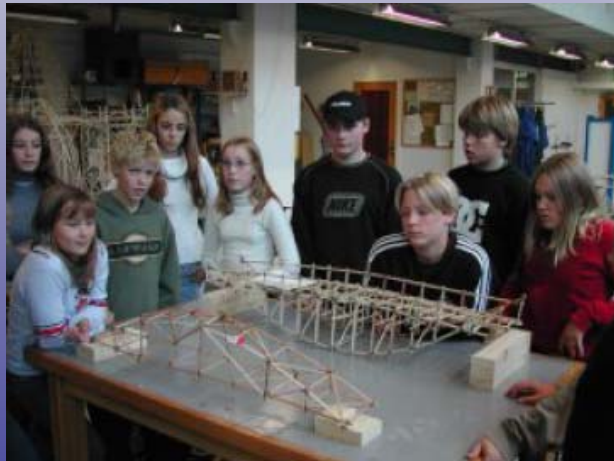
Konstruksjonsdata

Spennvidder	L	[m]	8,00	8,00	8,00	13,00	8,00	5,00
Spennvidde (kort)	L <sub>s</sub>	[m]	8,00	100	8,00	0,00	0,00	5,00
Bredde	b1	[mm]		100				
Bredde	b2	[mm]			100			
Høyde	H	[mm]	200	200		200		
Tykkelse	t1	[mm]				10		197
Tykkelse	t2	[mm]				10		
Tykkelse	t3	[mm]	100			100		
Tverrsnittsareal	A	[mm <sup>2</sup> ]	20 000,00				20000	
Arealtrykksmoment	I	[mm <sup>4</sup> ]	8,87E+07					8670 0000

Da = Limtrebjelker

Tilbake Neste

# ICT and Learning



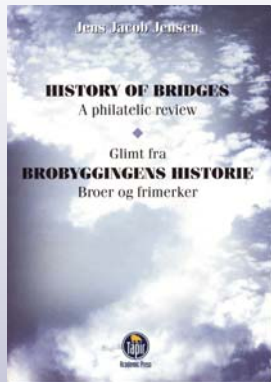
## ***Learning and educational consulting***

We do educational consulting for upper secondary schools, colleges and universities. Assignments can be attached to learning processes in upper secondary schools, teaching assistance and counselling in colleges and universities.

## ***Development of technical information and learning materials directed at children and adolescents.***

The building industry presently suffers from a lack of recruitment. How can we be more attractive to young people in their choice of profession? JJJ Consult is ready to take on assignments for the development of technical information and learning materials to be used in the recruitment of budding engineers who can play, think and create. Suppositions are made on the basis of young people's mind set, with approaches ranging from kindergarten to school and university. We develop materials suitable for schools, museums and science centres that explain phenomena from physics, environment, art, society etc. Our focus is on opportunities and responsibility. Products can be books, models, CD-ROMs or Internet applications.

# ICT and Learning



History of Bridges



ConTre Bridge model system

## Projects

### ***HISTORY OF BRIDGES. A Philatelic Review***

An introduction to the topic of bridges. It is an unpretentious, popular contribution to the history of technology, where such aspects as technology, history and philately are merged.

Tapir Academic Press 2001, ISBN 82-519-1692-5

### ***"TECHNOLOGY LAB" NTNU FOR YOUNG PEOPLE***

The TL which started autumn 2002 is situated in the Structure Engineering Lab at NTNU. Schools which are carrying out project work in Technology & Design are invited to visit the TL. Handbooks, models and CD-Roms are worked out.

### ***ConTre BRIDGE MODEL SYSTEM***

Construction model system for young people.

See <http://www.contre.no/>

### ***Reference***

Jensen, J.J

"Technological Curiosity to Young People – Civil Engineering – Structures" Proceedings XIX Symposium on Nordic Concrete Research & Development, June 2005, Sandefjord, Norway