

FLOW IN A PIPE

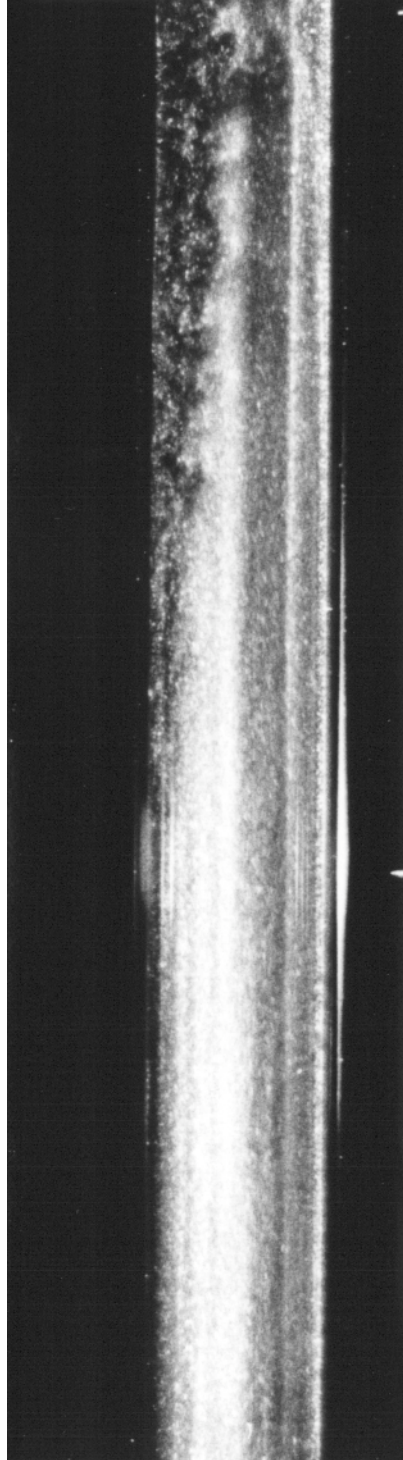


Image ID : PIPE-01
Data Base Name : FLOW-VIS
Input by : S. Taneda
Input on y/m/d : 1998. 11. 25
Image Title : Transition at the wall in a pipe flow(visualized by suspending aluminum powder)
Notes : Water.
Bell mouth and honeycomb are set at the entrance of the pipe.
The inner diameter of the tube is 5cm. $R = 16870$ based on the average flow speed.
At 4.5m from the entrance.

Author : S. Taneda
Published in : 1988
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Research Field : Fluid dynamics
Expressed as : Tracer photograph, Streamline
Shape features : Pipe. Irregularity

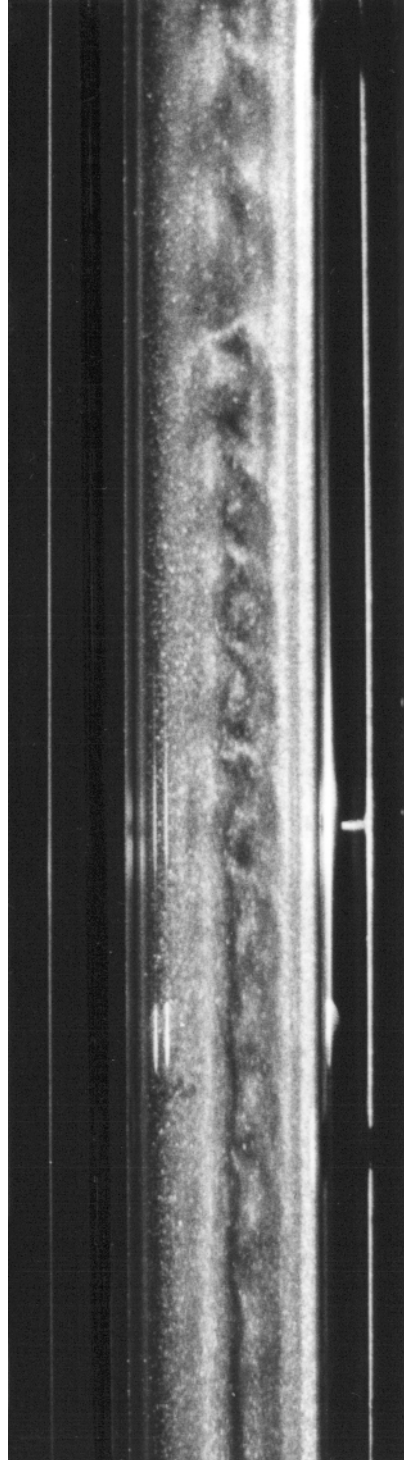


Image ID : PIPE-02
Data Base Name : FLOW-VIS
Input by : S. Taneda
Input on y/m/d : 1998. 11. 25
Image Title : Transition at the wall in a pipe flow(visualized by suspending aluminum powder)
Notes : Water.
Only bell mouth is set at the entrance of the pipe. Honeycomb is not set.
The inner diameter of the tube is 5cm. $R = 5535$.
At 1.6m from the entrance.

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Research Field : Fluid dynamics
Expressed as : Tracer photograph
Shape features : Pipe. Regularity

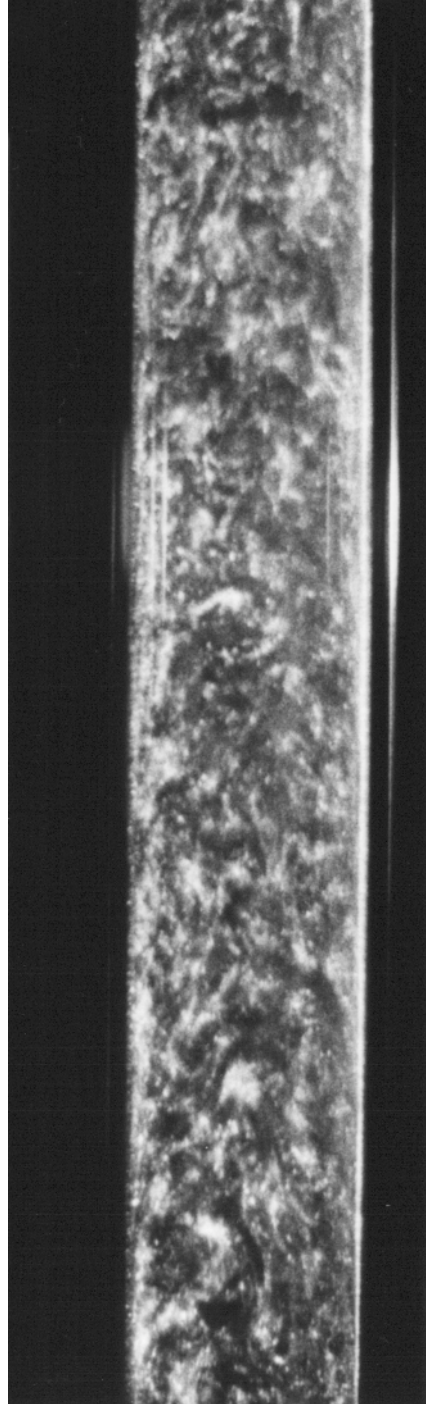


Image ID : PIPE-03
Data Base Name : FLOW-VIS
Input by : S. Taneda
Input on y/m/d : 1998. 11. 25
Image Title : Vertical cross section of the turburent flow in a pipe (visualized by suspending aluminum powder)
Notes : Water.
Honeycomb isn not set at the entrance of the pipe.
The inner diameter of the tube is 5cm. $R = 9230$.
At 4.5m from the entrance.

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Research Field : Fluid dynamics
Expressed as : Tracer photograph
Shape features : Pipe. Randomness

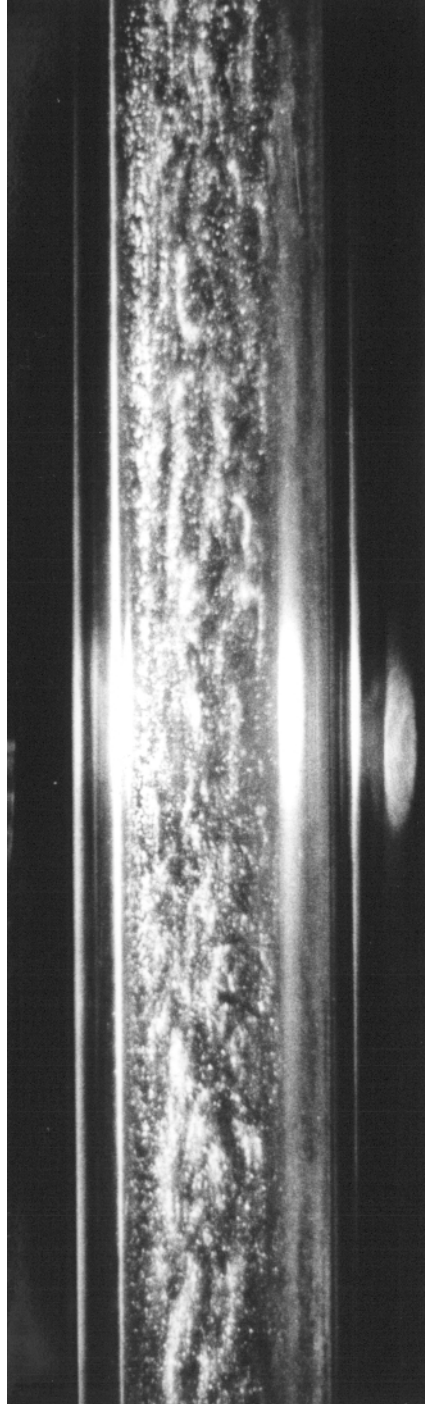


Image ID : PIPE-04
Data Base Name : FLOW-VIS
Input by : S. Taneda
Input on y/m/d : 1998. 11. 25
Image Title : Structure of the turburent flow near the wall in a pipe flow(visualized by suspending aluminum powder)
Notes : Water.
Honeycomb is not set at the entrance of the pipe.
The inner diameter of the tube is 5cm. $R = 9230$.
At 4.5m from the entrance.
Distance between longitudinal streaks is about 6mm.

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Research Field : Fluid dynamics
Expressed as : Tracer photograph
Shape features : Pipe. Regularity

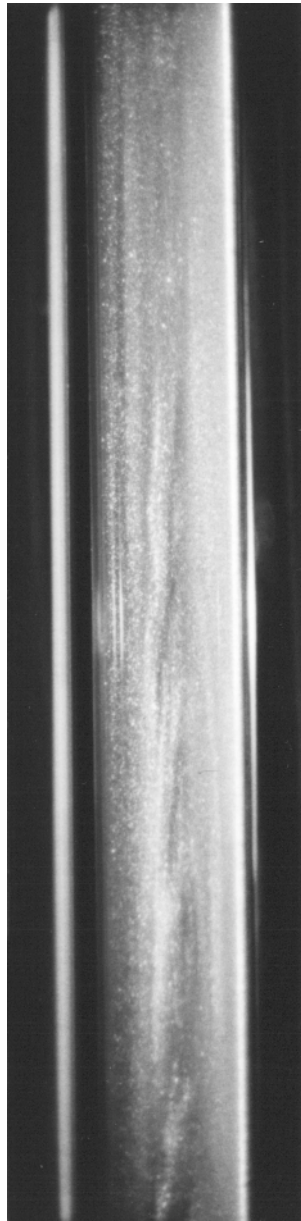


Image ID : PIPE-05
Data Base Name : FLOW-VIS
Input by : S. Taneda
Input on y/m/d : 1998. 11. 25
Image Title : Puff in a pipe flow (around the downstream end)
Notes : Water.
Bell mouth and honeycomb are not set at the entrance of the pipe.
The inner diameter of the tube is 5cm. $R = 2570$.
Visualized by suspending aluminum powder.
At 4.5m from the entrance.

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Research Field : Fluid dynamics
Expressed as : Tracer photograph
Shape features : Pipe. Periodicity

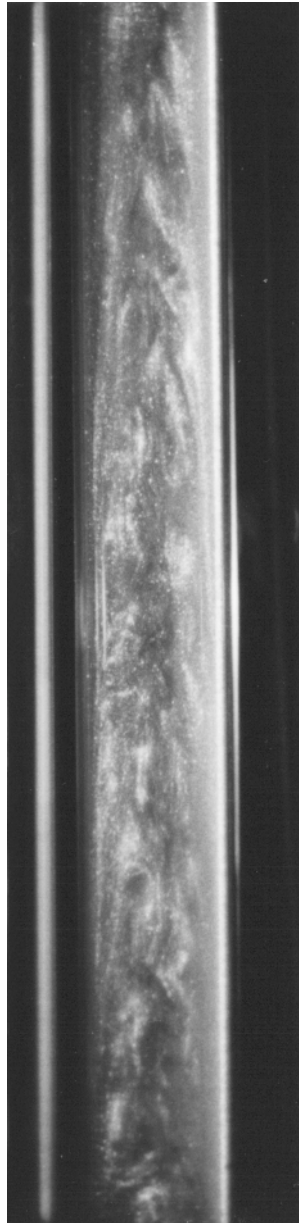


Image ID : PIPE-06
Data Base Name : FLOW-VIS
Input by : S. Taneda
Input on y/m/d : 1998. 11. 25
Image Title : Puff in a pipe flow (the central part)
Notes : Water.
Bell mouth and honeycomb are not set at the entrance of the pipe.
The inner diameter of the tube is 5cm. $R = 2570$.
Visualized by suspending aluminum powder.
At 4.5m from the entrance.

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Research Field : Fluid dynamics
Expressed as : Tracer photograph
Shape features : Pipe. Randomness

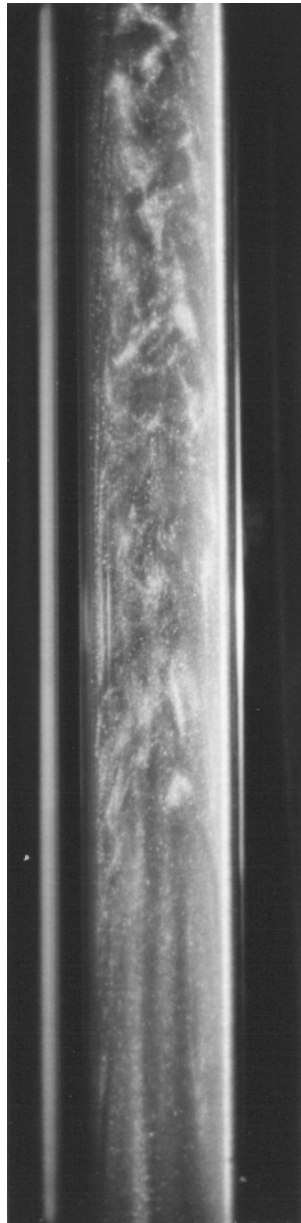


Image ID : PIPE-07
Data Base Name : FLOW-VIS
Input by : S. Taneda
Input on y/m/d : 1998. 11. 25
Image Title : Puff in a pipe flow(around the upstream end)
Notes : Water.
Bell mouth and honeycomb are not set at the entrance of the pipe.
The inner diameter of the tube is 5cm. $R = 2570$.
Visualized by suspending aluminum powder.
At 4.5m from the entrance.

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Research Field : Fluid dynamics
Expressed as : Tracer photograph
Shape features : Pipe. Randomness

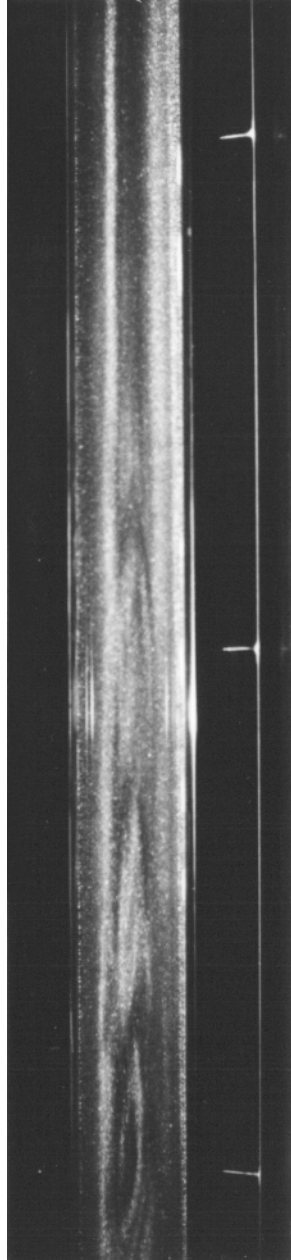


Image ID : PIPE-08
Data Base Name : FLOW-VIS
Input by : S. Taneda
Input on y/m/d : 1998. 11. 25
Image Title : Slug flow in a pipe flow(around the downstream end)
Notes : Water.
Bell mouth is set at the entrance of the pipe. Honeycomb is not set.
The inner diameter of the tube is 5cm. $R = 5640$.
Visualized by suspending aluminum powder.
At 4.5m from the entrance.

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Research Field : Fluid dynamics
Expressed as : Tracer photograph
Shape features : Pipe. Periodicity

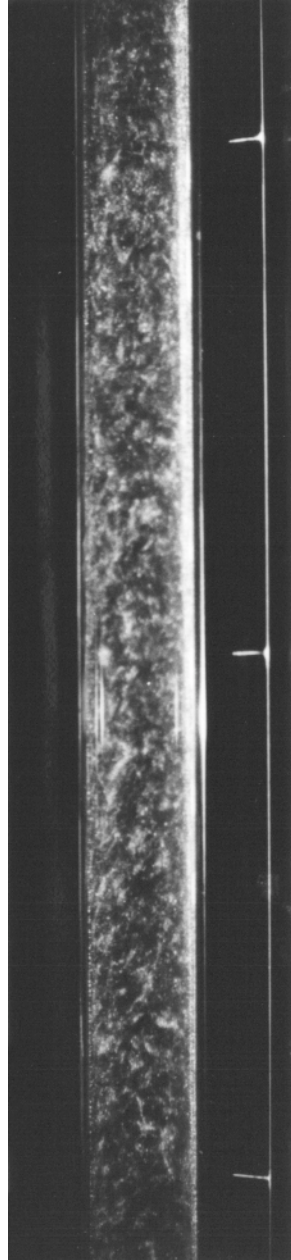


Image ID : PIPE-09
Data Base Name : FLOW-VIS
Input by : S. Taneda
Input on y/m/d : 1998. 11. 25
Image Title : Slug in a pipe flow (the central part)
Notes : Water.
Bell mouth is set at the entrance of the pipe. Honeycomb is not set.
The inner diameter of the tube is 5cm. $R = 5640$.
Visualized by suspending aluminum powder.
At 4.5m from the entrance.

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Research Field : Fluid dynamics
Expressed as : Tracer photograph
Shape features : Pipe. Randomness

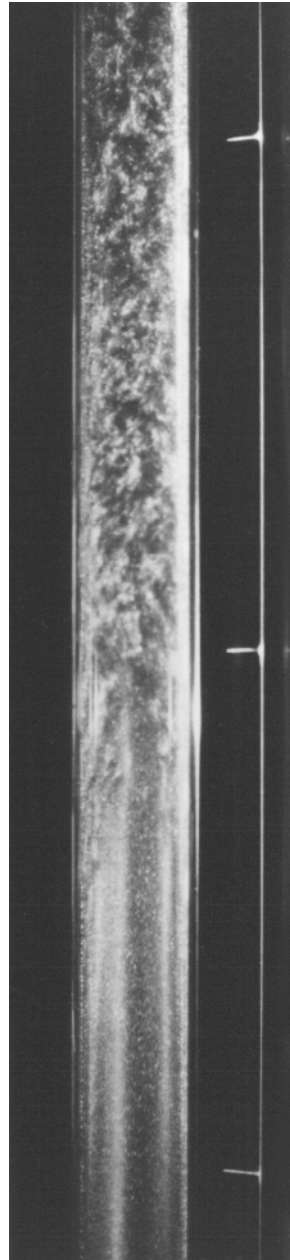


Image ID : PIPE-10
Data Base Name : FLOW-VIS
Input by : S. Taneda
Input on y/m/d : 1998. 11. 25
Image Title : Slug in a pipe flow (around the upstream end)
Notes : Water.
Bell mouth is set at the entrance of the pipe. Honeycomb is not set.
The inner diameter of the tube is 5cm. $R = 5640$.
Visualized by suspending aluminum powder.
At 4.5m from the entrance.

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Research Field : Fluid dynamics
Expressed as : Tracer photograph
Shape features : Pipe. Randomness