The **stb-beamer** packages[*]

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Abstract

Presentation templates Stellenbosch.

Contents

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[*]This document corresponds to stb-beamer v1.0, dated 2023/08/10.

1 Usage

1.1 stb-beamer-a

```
\documentclass[xcolor={svgnames,table},10pt,fleqn]{beamer}
\usepackage{stb-beamer-a}

%---- Fonts ---------------------------------------------------------
\usefonttheme{professionalfonts}
\usepackage[T1]{fontenc}
\usepackage{textcomp}
\usepackage[default,medium,scaled=1.0]{raleway}
\usepackage[scaled=0.80]{arevmath}

%---- Title page ----------------------------------------------------
\title[Ballistic\\ Gel]
      {\Large DEM Modeling of Ballistic Gelatin for Low Energy Impacts}
%\subtitle{}
\author{\textbf{HC Grobbelaar\and DNJ Els\and CJ Coetzee}}
\institute{\itshape Dept of Mech \& Mechatronic Eng,\\
           Stellenbosch University, South Africa}
\date{4th Aspherix and CFDEM Conference\\[0.5ex]
      \small 20--21 Apr 2023, Linz, Austria}
\def\titlefig{\includegraphics[width=7.0cm]{Ball-penetrate}}
```
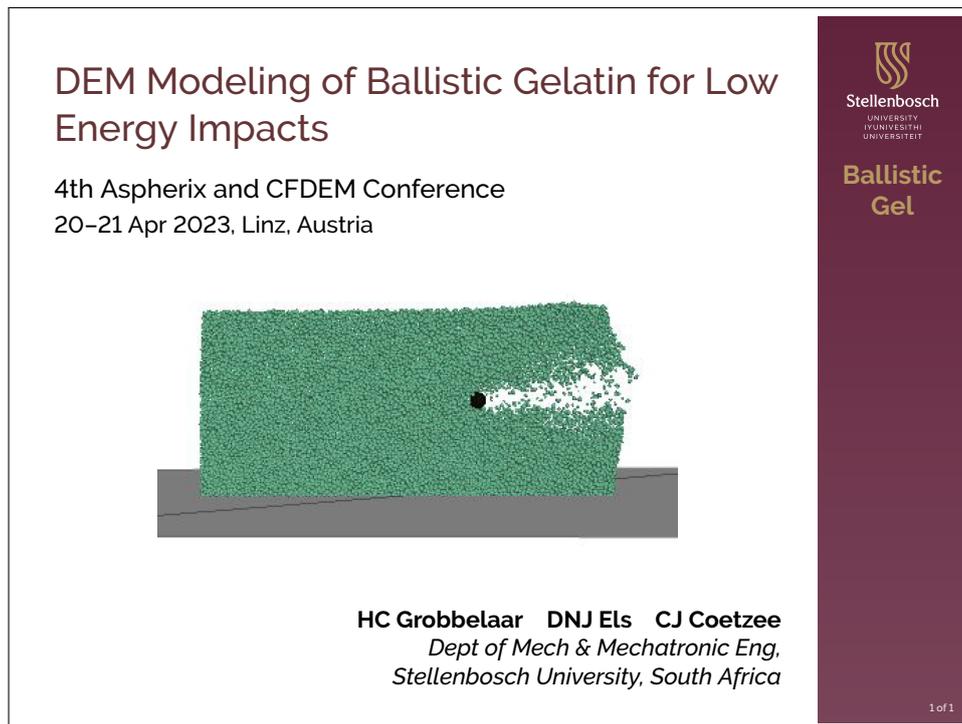

Figure 1: stb-beamer-a

1.2 stb-beamer-b

```
\documentclass[xcolor={svgnames,table},10pt,fleqn]{beamer}
\usepackage{stb-beamer-b}

%---- Fonts ----------------------------------------------------------
\usefonttheme{professionalfonts}
\usepackage[T1]{fontenc}
\usepackage{textcomp}
\usepackage[default,medium,scaled=1.0]{raleway}
\usepackage[scaled=0.80]{arevmath}

%---- Title page -----------------------------------------------------
\title[Ballistic\\ Gel]
      {DEM Modeling of Ballistic Gelatin for Low Energy Impacts}
%\subtitle{}
\author[Grobbelaar et al]
       {{\bfseries HC Grobbelaar\and DNJ Els\and CJ Coetzee}}
\institute[]{\itshape Dept of Mech \& Mechatronic Eng,\\
          Stellenbosch University, South Africa}
\date[]{4th Aspherix and CFDEM Conference\\[0.5ex]
      \small 20--21 Apr 2023, Linz, Austria}
\def\titlefig{}
```
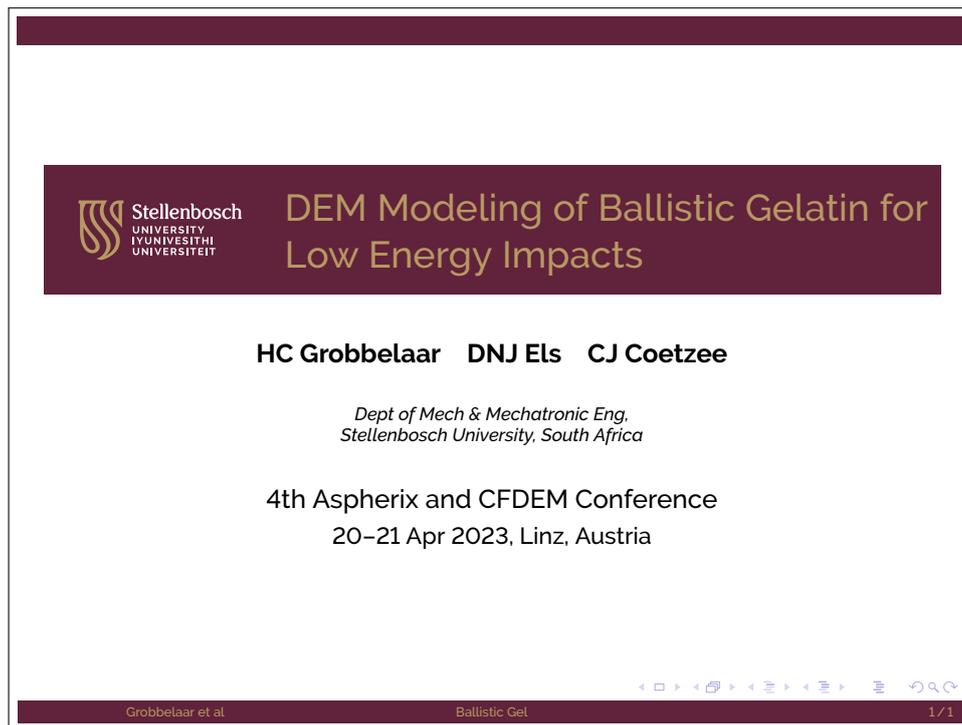

Figure 2: stb-beamer-b

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2 Implementation: stb-beamer

2.1 Identification

1 ⟨∗beamer-a | beamer-b⟩

2 \NeedsTeXFormat{LaTeX2e}

3 ⟨∗beamer-a⟩
4 *\ProvidesPackage{stb-beamer-a*
5 *   [2023/08/10 v1.0 Stellenbosch Beamer (DNJ ELS)]*
6 ⟨/beamer-a⟩

7 ⟨∗beamer-b⟩
8 *\ProvidesPackage{stb-beamer-b*
9 *   [2023/08/10 v1.0 Stellenbosch Beamer (DNJ ELS)]*
10 ⟨/beamer-b⟩

2.2 Colors

11 \definecolor{stbMaroon}{RGB}{97, 34, 59}
12 \definecolor{stbGold} {RGB}{183,153, 98}
13 \definecolor{stbGreen} {RGB}{130,204,174}
14 \definecolor{stbOrange}{RGB}{220, 68, 5}
15 \definecolor{stbWine} {RGB}{166, 10, 61}
16 \definecolor{stbSoil} {RGB}{100, 51, 53}

2.3 stb-beamer-a

17 ⟨∗beamer-a⟩
18 *\usetheme[]{Marburg}*
19
20 *\logo{\includegraphics[width=1.25cm]{stb-logo-beamer}}*
21
22 *\useoutertheme[height=0pt,width=2cm,right]{sidebar}*
23 *\useinnertheme[shadow]{rounded}*
24 *\usecolortheme{rose,sidebartab}*
25
26 *\setbeamertemplate{sidebar canvas \beamer@sidebarside}*
27 *   [vertical shading]*
28 *   [top=stbMaroon,bottom=stbMaroon!85]*
29
30 *\setbeamertemplate{section in sidebar}{\vbox{%*
31 *   \beamer@sidebarformat{3pt}{section in sidebar}{\insertsectionhead}}}*
32 *\setbeamertemplate{section in sidebar shaded}{\vbox{%*
33 *   \beamer@sidebarformat{3pt}{section in sidebar shaded}{\insertsectionhead}}}*
34
35 *\setbeamertemplate{subsection in sidebar}{\vbox{%*
36 *   \beamer@sidebarformat{6pt}{subsection in sidebar}{\insertsubsectionhead}}}*
37 *\setbeamertemplate{subsection in sidebar shaded}{\vbox{%*
38 *   \beamer@sidebarformat{6pt}{subsection in sidebar shaded}{\insertsubsectionhead}}}*
39
40 *\usefonttheme[only large]{structurebold}*
41
42 *\setbeamercolor{structure}{fg=stbSoil}*
43 *\setbeamercolor{author}{parent=structure}*
44 *\setbeamercolor{title in sidebar}{fg=stbGold}*

```latex
45
46 \setbeamerfont{title}{series=\normalfont,size=\Huge}
47 \setbeamerfont{title in sidebar}{series=\bfseries,size=\normalsize}
48 \setbeamerfont{author in sidebar}{series=\bfseries}
49 \setbeamerfont*{item}{series=}
50 \setbeamerfont{frametitle}{size=}
51 \setbeamerfont{block title}{size=\small}
52 \setbeamerfont{subtitle}{size=\Large,series=\normalfont}
53
54 \setbeamertemplate{navigation symbols}{}
55 \setbeamertemplate{bibliography item}[book]
56
57 \setbeamertemplate{sidebar right}
58    {\hspace*{0pt}%
59     \vskip2.5em%
60     \hbox to2cm{\hss\insertlogo\hss}
61    %\vskip1.25em%
62    {\usebeamerfont{title in sidebar}%
63     \vskip0.5em%
64     \hskip3pt%
65     \usebeamercolor[fg]{title in sidebar}%
66     \insertshorttitle[width=\dimexpr 2cm-6pt,center,respectlinebreaks]\par%
67     \vskip0.5em}%
68    %\hbox to2cm{\hss\insertlogo\hss}
69    %\vskip1.25em%
70     \insertverticalnavigation{2cm}%
71     \vfill
72     \hbox to 2cm{\hfill
73                  \usebeamerfont{subsection in sidebar}\strut
74                  \usebeamercolor[fg]{subsection in sidebar}%
75                  \insertframenumber{} of \inserttotalframenumber{}\hskip5pt}%
76     \vskip3pt}%
77
78 \let\titlefig\relax
79 \setbeamertemplate{title page}
80    {\vbox{}
81    %\vskip1em
82    {\usebeamercolor[fg]{title}\usebeamerfont{title}\inserttitle\par}%
83    \ifx\insertsubtitle\@empty%
84    \else%
85       \vskip0.25em%
86       {\usebeamerfont{subtitle}\usebeamercolor[fg]{subtitle}\insertsubtitle\par}%
87    \fi%
88    \vskip1em\par
89    \insertdate\par
90    \vskip0pt plus1filll
91    \mbox{}\hfill\titlefig\hfill\mbox{}\par
92    \vskip0pt plus1filll
93    \leftskip=0pt plus1fill\insertauthor\par
94    \insertinstitute\vskip1em}
95
96 \setbeamerfont{frametitle}{size=\large}
97 \setbeamercolor{frametitle}{bg=white,fg=stbMaroon}%{parent=block title}
```

```
 98 \setbeamerfont{framesubtitle}{size=\normalsize, shape=\itshape}
 99
100 \setbeamercolor{block title}{bg=stbMaroon!35,fg=stbMaroon}
101 \setbeamercolor{block body} {bg=stbMaroon!15,fg=black}
102
103 \setbeamercolor{block title alerted}{fg=white, bg=stbOrange}
104 \setbeamercolor{block body alerted}{bg=stbOrange!15,fg=stbOrange}
105 \setbeamercolor{alerted text}{fg=stbOrange}
106
107 \setbeamercolor{block title example}{fg=white, bg=stbGreen!70!black}
108 \setbeamercolor{block body example}{bg=stbGreen!25}
109 ⟨/beamer-a⟩
```

2.4 stb-beamer-b

```
110 ⟨*beamer-b⟩
111 \usetheme[secheader]{Madrid}
112
113 \definecolor{stbGray}  {RGB}{140,151,154}  % 0.54, 0.59, 0.6
114 \definecolor{stbBlue}  {RGB}{  0, 99,150}
115
116 \setbeamercolor{titlelike}{bg=stbMaroon,fg=stbGold}
117 \setbeamercolor{palette primary}{bg=stbMaroon,fg=stbGold}
118 \setbeamercolor{palette secondary}{bg=stbMaroon,fg=stbGold}
119 \setbeamercolor{palette tertiary}{bg=stbMaroon,fg=stbGold}
120 \setbeamercolor{item projected}{fg=stbMaroon, bg=stbMaroon}
121
122 \setbeamercolor{block title}{bg=stbMaroon,fg=stbGold}
123 \setbeamercolor{block body}{bg=stbGray!35,fg=black}
124
125 \setbeamercolor{block title alerted}{fg=white, bg=stbOrange}
126 \setbeamercolor{block body alerted}{bg=stbOrange!15,fg=stbOrange}
127 \setbeamercolor{alerted text}{fg=stbOrange}
128
129 \setbeamercolor{block title example}{fg=white, bg=stbGreen!70!black}
130 \setbeamercolor{block body example}{bg=stbGreen!25}
131
132
133 \setbeamerfont{block body}{size=\small}
134 \setbeamerfont{block body example}{size=\small}
135 \setbeamerfont{block body alerted}{size=\small}
136
137 \setbeamerfont{frametitle}{size=\normalsize}
138 \setbeamerfont{block title}{size=\normalsize}
139 \setbeamerfont{block title example}{size=\normalsize}
140
141 \setbeamertemplate{title}{%
142     \begin{beamercolorbox}[sep=2pt,left]{title}
143     \raisebox{-0.575\height}{\includegraphics[width=3cm]{stb-logo-horiz-w}}
144     \hfill
145     \parbox[t]{\dimexpr\hsize-3cm-4pt-8pt}{%
146             \usebeamerfont{title}\inserttitle%
147             \ifx\insertsubtitle\@empty%
148             \else%
```

```
149            \par\vskip0.25em%
150            {\usebeamerfont{subtitle}\usebeamercolor[fg]{subtitle}\insertsubtitle}%
151        \fi}%
152    \end{beamercolorbox}%
153 }
154 ⟨/beamer-b⟩

155 ⟨/beamer-a|beamer-b⟩
```

The end of this package.

Change History

v1.0
General: Initial version . . . .