

APPENDIX

PRESENTATIONS ON CD-ROM

The CD-ROM in the pocket attached to the back of the thesis contains three animations created using Macromedia Flash MX. The seaweed material was prepared in the same way as in chapter 7.

In the first animation the viewer zooms into the surface of a segment of *Osmundaria serrata*. The diversity of a small portion of the biofilm on this seaweed is shown. The second animation zooms into the tip of a serration of *O. serrata* to show damage by waves and sand. In the third animation the viewer zooms into the surface of *O. serrata* where sand particles embedded in the biofilm is seen. The image then pans across the surface of the seaweed showing more of the biofilm bacteria.

A Microsoft PowerPoint presentation is also included and is a synthesis of three conference presentations of the work: the South African Association of Botanists meeting in Johannesburg, South Africa (SA), 2001, the Phycological Society of Southern Africa meeting in Cape Town, SA, 2002 (where the SASCA award was won) and the Indigenous Plant Use Forum meeting in George, SA, 2002.

To view the animations Flash software has to be installed on your computer. If it is not then you should be directed by your browser to the site where you may download it. If your browser does not direct to the Flash download site then please go to the following site:

<http://download.macromedia.com/pub/shockwave/cabs/flash/swflash.cab#version=6,0,29,0>

The animations may run slowly if you have less than 128 MB of RAM in your computer. If this is the case please try to increase the size of the virtual memory (the amount of memory that Windows can use on your hard drive as RAM) your computer uses. To do this go to Control Panel > System Properties > Performance Options > Advanced (this may be slightly different for different versions of Microsoft Windows.) This should speed up memory hungry applications (like those that use graphics), but makes the hard drive work harder. It is not recommended for long-term use because of the wear on the parts of the hard drive.

The animations and PowerPoint presentation supplement the work in the thesis and is intended to enrich the viewer's experience of the thesis. With the animation an extra dimension is added to the still micrographs; the illusion of movement over the seaweed surface. In this way the viewer may easily compare different areas and become aware of the size of the biofilm bacteria compared to the seaweed. The latter was the initial motivation for making the animations.