integrating sphere at said second aperture, said integrating sphere radiatively communicating with said first specimen holder through said first conduit and said integrating sphere radiatively communicating with said second specimen holder through said second conduit.

19. Apparatus according to claim **18**, wherein each of said first and second conduits is a cylindrical channel.

20. Apparatus according to claim **18**, wherein each of said first and second conduits is a fiber optic connection.

21. Apparatus according to claim **18**, wherein each of said first and second conduits is a high collection non-imaging optic device.

22. Apparatus according to claim **18**, including first, second and third conduits connected to said integrating sphere at said first, second, and third apertures respectively, said integrating sphere radiatively communicating with said specimen holders through respective conduits.

23. Apparatus according to claim **17**, wherein said means varying comprises means for controlling the temperature in at least one of said first and second specimen holder.

24. Apparatus according to claim **17** wherein said means for varying comprises means or controlling the ambient humidity in at least one of said first and second specimen holders.

25. Apparatus according to claim **17**, wherein said means or varying comprises means for applying a mechanical load to a specimen in at least one of said first and second specimen holders.

26. Apparatus comprising:

an integrating sphere having first and second apertures;

a radiation source in radiative communication with the interior of said integrating sphere, whereby beams of radiation each having a width and a substantially uniform radiance over said width are communicated from said integrating sphere through said first and second apertures; and

first and second specimen holders, said first specimen holder disposed externally with respect to said integrating sphere and said integrating sphere radiatively communicating with said first specimen holder through said first aperture, said second specimen holder disposed externally with respect to said integrating sphere and said integrating sphere radiatively communicating with said second specimen holder through said second aperture;

wherein said integrating sphere includes a third aperture, the apparatus further comprising a third specimen holder dispersed externally with respect to said integrating sphere and said integrating sphere radiatively communicating with said third specimen holder through said third aperture.

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